

Welcome to the Harrison Career Navigator! The Harrison Career Navigator is a valuable tool for starting, changing, or developing your career. It measures 175 factors including your task preferences, motivations, work environment preferences, interests, and interpersonal preferences. The system compares your preferences to 643 careers and determine your most enjoyable careers. Please note this is not an assessment of your education, experience, or ability to perform specific tasks. You will need to consider these things separately.

The careers are listed in order of your enjoyment. The enjoyment scores are to the left of each career. The highest possible enjoyment score is 100 and a score of 80 or greater indicates the career is probably a good match for your preferences and it is worth exploring that career further. You should not necessarily decide on the career with the highest score because you also need to review the job descriptions, reflect on the educational requirements, consider availability in your area and review other details about that career.

Our research has shown that people who enjoy at least 75% of their job are much more likely to succeed in that job. Therefore, enjoying your career is not only important for your happiness, it is also important for your success.

A career decision is one of the most important decisions of your life. Therefore, it is important to take your time and explore the valuable information you can obtain from the Harrison Career Guide system. You can also look up the careers on the web or find a career counselor or school counselor to provide you with more information about that career. You could also contact professional organizations related to the career or call employers who advertise for openings related to this career. For further information about salaries, availability, training and career descriptions, use an internet search engine to discover more careers in your country. For example, you can find the United States government publication of the Occupational Outlook Handbook online at <http://www.bls.gov/ooh> or you can explore the home site on <http://www.bls.gov>. You can also find the Occupational Outlook Handbook at your local library.

The questionnaire includes a technological 'consistency detector' that indicates the reliability of results by analyzing the consistency of the answers on the questionnaire. Your consistency score is 70 which indicates that you were 94.0% consistent in answering the questionnaire. This indicates a high likelihood that you were truthful, accurately self-aware, and able to concentrate on the questionnaire.

Disclaimer: This information is intended to be used as a general guide to explore your career. Career decisions should be based on local information and your own self-reflection. Harrison Assessments Int'l, and its associated companies do NOT accept any liability of any kind including negligence related to the accuracy or the use of this information.

### Careers which have a high enjoyment percentage and suitability

- (80.4%) **Engineer - Nuclear:** Design or develop nuclear equipment, such as reactor cores, radiation shielding or associated instrumentation or control mechanisms. Direct operating or maintenance activities of operational nuclear power plants and initiate corrective actions, or order plant shutdowns in emergency situations. Conduct tests of nuclear fuel behaviour and performance of nuclear equipment to optimize performance of existing plants. Conduct research on nuclear engineering projects.
- (80.2%) **Engineering Technology Technical Writer:** Write or edit technical materials, such as equipment manuals, appendices and operating and maintenance instructions, according to set standards regarding order, clarity, conciseness, style, and terminology. Study drawings, specifications, mock ups and product samples to integrate and delineate technology, operating procedure and production sequence and detail. Interview production and engineering personnel, and read journals and other material to become familiar with product technologies and production methods. Analyse developments in specific field to determine need for revisions in previously-published materials and development of new material.

### Careers which have a reasonable enjoyment percentage and suitability

- (79.7%) **Training Materials Developer:** Analyse a subject and develop high quality training materials. Use software applications to develop materials.
- (78.4%) **Experimental Psychologist:** Formulate hypotheses and experimental designs to investigate problems of perception, memory, learning, personality and cognitive processes. Select control, and modify variables in human or animal laboratory experiments, and observe and record behaviour in relation to variables. Analyse test results, using statistical techniques, and evaluate significance of data in relation to original hypothesis. Conduct research.
- (77.3%) **Sketch Artist:** Draw sketch, profile, or likeness of posed subject or photograph, using pencil, charcoal, pastels or other medium. Assemble and arrange outlines of features to form composite image, according to information provided by witness or victim, and alter copy of composite image until witness or victim is satisfied that composite is best possible representation of suspect. Interview crime victims and witnesses to obtain descriptive information concerning physical build, sex, nationality and facial features of unidentified suspect.
- (77.1%) **Counselling Psychologist:** Analyse data such as interview notes, test results, and reference manuals to identify symptoms and to diagnose the nature of clients' problems. Provide individual or group counselling services to assist individuals in achieving more effective personal, social, educational and vocational development and adjustment. Evaluate the results of counselling methods to determine the reliability and validity of treatments. Develop therapeutic and treatment plans based on clients' interests, abilities and needs.
- (76.7%) **Caption Writer:** Write captions to describe music and background noises or to interpret dialogue from one language to another. Watch production and review captions simultaneously to determine which caption phrases require editing; edit as required. Enter commands to synchronize captions with dialogue and place on the screen. Discuss captions with directors or producers of movie and television productions.
- (76.5%) **Packaging Designer:** Prepare sketches of ideas, detailed drawings, illustrations, artwork or blueprints, using drafting instruments, paints and brushes, or computer-aided design (CAD) equipment. Evaluate feasibility of design ideas, based on factors such as appearance, safety, function, serviceability, budget, production costs/method and market characteristics. Direct and coordinate the fabrication of models or samples, and the drafting of working drawings and specification sheets from sketches. Present designs and reports to customers or design committees for approval, and discuss need for modification.
- (76.1%) **Physicist:** Conduct research into the phases of physical phenomena, develop theories and laws on the basis of observation and experiments, and devise methods to apply laws and theories to industry and other fields. Describe and express observations and conclusions in mathematical terms. Conduct application analysis to determine commercial, industrial, scientific, medical, military or other uses for electro-optical devices. Design electronic circuitry and optical components with scientific characteristics to fit within specified mechanical limits and perform according to specifications.
- (76.1%) **Metallurgical Technician:** Examine and test metal and metal alloy samples to determine their physical properties. Conduct routine microscopic examinations of metals and alloys to determine their characteristics. Examine metal and alloy samples with x-ray, gamma-ray and magnetic-flux equipment to detect internal fractures and impurities. Test samples in pressure devices, hot-acid baths and other apparatus to determine strength, hardness, elasticity, toughness or other properties of metal.
- (76.0%) **Career Counsellor:** Advise youth to assist them in in developing their educational and vocational objectives, as well as helping them understand and overcome personal and social problems. Collect and evaluate information about youths' abilities, interests and personality characteristics, using records, tests and interviews. Compile and study occupational, educational and economic information to assist youth in making and carrying out vocational and educational objectives.
- (75.7%) **Materials Scientist:** Research and study the structures and chemical properties of various natural and synthetic or composite materials. Determine ways to strengthen or combine materials or to develop new materials. Plan laboratory experiments to confirm feasibility of processes and techniques used in the production of materials. Confer with customers to determine how to tailor materials to their needs.
- (75.6%) **Developmental Psychologist:** Identify psychological, emotional or behavioural issues related to children and young adults, and diagnose disorders using information obtained from interviews, tests, records and reference materials. Develop and implement individual treatment plans, specifying type, frequency, intensity, and duration of therapy. Use a variety of treatment methods, such as psychotherapy, hypnosis, behaviour modification, stress reduction therapy, psychodrama, and play therapy. Interact with

### Careers which have a reasonable enjoyment percentage and suitability

- clients to assist them in gaining insight, defining goals and planning action to achieve effective personal, social, educational and vocational development and adjustment.
- (75.5%) **Geophysicist:** Study the physical aspects of the earth and its atmosphere and apply scientific principles in order to solve problems. May also study other planets. Examine the effects of the atmosphere on radio and satellite communications. Measure and chart the sound waves created by explosions to determine the kinds and patterns of rock beneath the surface.
- (75.2%) **Human Services Worker:** Assist in providing client services in a wide variety of fields, such as psychology, rehabilitation, or social work, including support for families. May assist clients in identifying and obtaining available benefits and social and community services. May assist social workers with developing, organizing and conducting programs to prevent and resolve problems relevant to substance abuse, human relationships, rehabilitation or dependent care. Keep records or prepare reports for owner or management concerning visits with clients.
- (75.1%) **Communications/Telecommunication Systems Engineer:** Analyse and evaluate system requirements, capacity, cost and customer needs to determine feasibility of project and develop system plan. Confer with engineers, customers, vendors or others to discuss existing and potential engineering projects or products. Develop or perform operational, maintenance or testing procedures for electronic products, components, equipment or systems. Provide technical support and instruction to staff or customers regarding equipment standards, assisting with specific, difficult in-service engineering.
- (75.0%) **Industrial-Organizational Psychologist:** Develop personnel policies, instruments and programs for the selection, placement, training and development, and evaluation of employees. Conduct organizational analysis and programs for organizational development. Conduct research studies on leadership, supervision, morale, motivation and worker productivity. Develop interview techniques, rating scales and psychological tests to assess skills, abilities and interests as aids in selection, placement and promotion. Advise management in strategic changes to personnel, managerial and marketing policies, and practices to improve organizational effectiveness and efficiency.
- (74.9%) **Chemist:** Conduct qualitative and quantitative chemical analyses or experiments in laboratories for quality or process control, or to develop new products or knowledge. Develop, improve or customize products, equipment, formulas, processes or analytical methods. Confer with scientists or engineers to conduct analyses of research projects, interpret test results or develop nonstandard tests. Write technical papers or reports, or prepare standards and specifications, for processes, facilities, products or tests.
- (74.9%) **Editor:** Read, evaluate and edit manuscripts or other materials submitted for publication and confer with authors regarding changes in content and style. Verify facts, dates and statistics, using standard reference sources. Read copy or proof to detect and correct errors in spelling, punctuation and syntax. Allocate print space for story text, photos and illustrations, according to space parameters and copy significance, using knowledge of layout principles.
- (74.9%) **Clinical Psychologist:** Identify psychological, emotional or behavioural issues and diagnose disorders, using information obtained from interviews, tests, records and reference materials. Develop and implement individual treatment plans, specifying type, frequency, intensity and duration of therapy. Interact with clients to assist them in gaining insight, defining goals and planning action to achieve effective personal, social, educational and vocational development and adjustment. Write reports on clients and maintain required paperwork.
- (74.7%) **Astronomer:** Observe, research and interpret astronomical phenomena to increase basic knowledge or apply such information to practical problems. Develop theories based on personal observations or on observations and theories of other astronomers. Collaborate with other astronomers to carry out research projects. Present research findings at scientific conferences and in papers written for scientific journals.
- (74.5%) **Broadcast News Analyst:** Analyse and interpret news and information received from various sources. Examine news items of local, national, and international significance in order to determine topics to address or obtain assignments from editorial staff members. Edit news material to ensure that it fits within available time or space. Write commentaries, columns or scripts, using computers.
- (74.5%) **Book Editor:** Read and evaluate manuscripts to determine whether the work is marketable. Read, evaluate and edit manuscripts or other materials submitted for publication and confer with authors regarding changes in content, style, organization or publication. Read copy or proof to detect and correct errors in spelling, punctuation and syntax. Cultivate relationships with current and new authors.
- (74.2%) **Information Technology Technical Writer:** Write or edit technical materials, such as equipment manuals, appendices and operating and maintenance instructions, according to set standards regarding order, clarity, conciseness, style and terminology. Study drawings, specifications, mock ups and product samples, to integrate and delineate technology, operating procedure, and production sequence and detail. Interview production and engineering personnel and read journals and other material to become familiar with product technologies and production methods. Analyse developments in specific field, to determine need for revisions in previously published materials and development of new material.
- (74.1%) **Copy Reader:** Read copy or proof to detect and correct errors in spelling, punctuation and syntax. Prepare, rewrite and edit copy to improve readability, or supervise others who do this work. Verify facts, dates and statistics, using standard reference sources. Read, evaluate and edit manuscripts or other materials submitted for publication, and confer with authors regarding changes in content, style, organization or publication. Read material to determine index items and arrange them alphabetically or topically, indicating page or chapter location.
- (73.8%) **Petroleum Engineer:** Assess costs and estimate the production capabilities and economic value of oil and gas wells. Develop plans for oil and gas field drilling, and for product recovery and treatment. Oversee drilling and provide technical advice. Direct

### Careers which have a reasonable enjoyment percentage and suitability

- and monitor the completion and evaluation of wells, well testing or well surveys.
- (73.6%) **Engineer - Welding:** Develop welding techniques, procedures, and application of welding equipment to problems involving fabrication of metals. Conduct research and development investigations to develop and test new fabrication processes and procedures. Develop new welding equipment; develop or modify existing welding methods, techniques, and procedures. Prepare technical reports as result of research and development and preventive maintenance investigations.
  - (73.6%) **Graphics Designer:** Design or create graphics to meet specific commercial or promotional needs, such as packaging, displays or logos. Confer with clients to discuss and determine layout design. Determine size and arrangement of illustrative material and copy, and select style and size of type. Use computer software to generate new images.
  - (73.5%) **Chemical Engineer:** Design chemical plant equipment and devise processes for manufacturing chemicals and products, such as gasoline, synthetic rubber, plastics, detergents, cement or paper. Develop safety procedures to be employed by workers operating equipment or working in close proximity to on-going chemical reactions. Troubleshoot problems with chemical manufacturing processes. Conduct research to develop new and improved chemical manufacturing processes.
  - (73.3%) **Meteorologist:** Investigate atmospheric phenomena and interpret meteorological data. Gather data from sources such as surface or upper air stations, satellites, weather bureaus or radar, for use in meteorological reports or forecasts. Study and interpret data, reports, maps, photographs and charts to predict long- and short-range weather conditions. Prepare forecasts or briefings to meet the needs of industry, business, government or other groups. Broadcast weather conditions.
  - (73.3%) **Social Worker:** Counsel and aid individuals and families with problems relating to personal and family adjustments, finances, employment, food, clothing, housing or other human needs and conditions. Interview individuals to assess social and emotional capabilities, physical and mental impairments, and financial needs. Lead group counselling sessions to provide support in such areas as grief, stress or chemical dependency. Serve as liaison between student, home, school, family service agencies, child guidance clinics, courts, protective services, doctors and clergy members. Maintain case history records and prepares reports.
  - (73.2%) **Painter or Illustrator:** Paint or draw subject material to produce original artwork or illustrations, using watercolours, oils, acrylics, tempera or other paint mediums. Etch, carve, paint or draw artwork on material such as stone, glass, canvas, wood and linoleum. Integrate and develop visual elements such as line, space, mass, colour and perspective to produce desired effect. Confer with professional personnel or client to discuss objectives of artwork, develop illustration ideas and theme to be portrayed.
  - (72.8%) **Columnist, Critic, Commentator:** Create original written works, such as scripts, essays or prose for publication. Choose subject matter and suitable form to express personal feelings and experiences or ideas, or to narrate stories or events. Conduct research to obtain factual information and authentic detail, using sources such as newspaper accounts, diaries and interviews. Confer with clients, editors, publishers or producers to discuss changes or revisions to written material.
  - (72.5%) **Marriage Counsellor:** Ask questions that will help clients identify their feelings and understand their behaviours and interactions. Counsel clients on concerns, such as unsatisfactory relationships, divorce and separation, implications for children of the relationship. Encourage couples to develop and use skills and strategies for confronting their problems in a constructive manner. Maintain case files that include activities, progress notes, evaluations and recommendations.
  - (72.2%) **Flight Attendant:** Direct and assist passengers in emergency procedures. Announce and demonstrate safety and emergency procedures, such as the use of oxygen masks, seat belts and life jackets. Determine special assistance needs of passengers, such as small children, the elderly or disabled persons. Verify that first aid kits and other emergency equipment are in working order.
  - (72.1%) **Nuclear Equipment Technician:** Set control panel switches and activate equipment, such as nuclear reactor, particle accelerator or gamma radiation equipment, according to specifications. Calculate equipment operating factors, such as radiation time, dosage, temperature and pressure, using standard formulas and conversion tables. Monitor instruments, gauges and recording devices in the control room during operation of equipment, under direction of nuclear experimenter. Communicate with maintenance personnel to ensure readiness of support systems and to warn of radiation hazards. Write summary of activities or record experiment data in log for further analysis by engineers, scientists or customers, or for future reference.
  - (72.0%) **Social Psychologist:** Investigate psychological aspects of human interrelationships to gain understanding of individual and group thought, feeling and behaviour. Conduct research to analyse attitude, motivation, opinion and group behaviour, using behavioural observation, experimentation or survey techniques. Develop techniques, such as rating scales and sampling methods, to collect and measure behavioural data. Prepare reports documenting research methods and findings.
  - (71.9%) **Elevator Inspector:** Inspect elevators, their mechanical, electrical and electronic components and their housings for conformance with safety laws and standards regulating their design, fabrication, installation, repair and operation. Inspect drawings, design and manufacturers' specifications. Perform standard tests to verify condition of equipment and housings using test equipment and hand tools. Issue infringement and violation notices and close down unsafe equipment. Examine permits and inspection records to determine that inspection schedule and remedial actions conform to procedures and regulations.
  - (71.6%) **Metallurgist:** Evaluate metals and metal alloys and develop machinery and processes to manufacture materials for use in products to meet performance specifications. Monitor metal performance and evaluate deterioration. Analyse metal failure data and laboratory test results to determine causes of problems and to develop solutions. Evaluate technical specifications and economic factors relating to process or product design objectives.
  - (71.3%) **Sociologist:** Conduct research into the development, structure, and behaviour of groups of human beings and patterns of culture and social organization. Collect and analyse scientific data concerning social phenomena, such as community, associations, social institutions, ethnic minorities and social change. Observe group interaction and interview group members to identify problems and collect data related to factors, such as group organization and authority relationships. Develop approaches to



### Careers which have a reasonable enjoyment percentage and suitability

- solution of group's problems, based on findings, and incorporating sociological research and study in related disciplines. Consult with lawmakers, administrators and other officials who deal with problems of social change.
- (71.0%) **Radio Operator - Aviation:** Communicate by radio with test pilot, engineering personnel and others during flight testing to relay information. Communicate with receiving operator to give and receive instruction for transmission. Determine and obtain bearings of source from which signal originated, using direction-finding procedures and equipment. Monitor emergency frequency for distress calls and dispatch emergency equipment.
- (70.8%) **University Physics Teacher:** Teach courses pertaining to the laws of matter and energy. Prepare and deliver lectures to students. Compile, administer, grade examinations and advise students on academic and vocational curricula. Conduct research in particular field of knowledge and publish findings in professional journals.
- (70.8%) **Musician:** Play one or more musical instruments in recital, in accompaniment, or as members of an orchestra, band or other musical group. Practice musical instrument performances. Perform before live audiences and promote music by participating in media interviews and other activities. Audition for orchestras, bands or other musical groups.
- (70.5%) **Reporter and Correspondent:** Collect and analyse facts about newsworthy events by interview, investigation or observation. Write news stories for publication or broadcast from written or recorded notes provided by reporting staff, following prescribed editorial style and format standards. Receive assignment or evaluate news leads and news tips to develop story idea. Take photographs or shoot video to illustrate stories.
- (70.3%) **Engineer - Heat Dissipation:** Design and test for thermal flux noise. Analyse electronic products heat dissipation structures. Conduct technical discussions with foreign and domestic customers. Carry out testing, simulations. Design and apply for heat dissipation patents.
- (70.3%) **Transmitter Engineer:** Operate and maintain radio transmitter to broadcast radio and television programs. Monitor console panel and signal emission and make adjustments as needed to maintain quality of transmission. Test components of malfunctioning transmitter to diagnose trouble, using test equipment, such as oscilloscope, voltmeters, and ammeters. Converse with studio personnel to determine cause of equipment failure and to solve problem.
- (70.3%) **Make-Up Artist:** Apply makeup to enhance and/or alter the appearance of people appearing in productions, such as movies. Confer with stage or motion picture officials and performers in order to determine desired effects. Duplicate work precisely in order to replicate characters' appearances on a daily basis. Requisition or acquire needed materials for special effects, including wigs, beards and special cosmetics.
- (70.1%) **Travel Agent:** Plan, describe, arrange and sell itinerary tour packages and promotional travel incentives, offered by various travel carriers. Converse with customer to determine destination, mode of transportation, travel dates, financial considerations, and accommodations required. Compute cost of travel and accommodations, using calculator, computer, carrier tariff books and hotel rate books, or quote package tour costs, and books transportation and hotel reservations. Collect payment for transportation and accommodations from customer.

### Careers which have a moderate enjoyment percentage and suitability

- (69.9%) **Vocational Rehabilitation Specialist:** Develop proposals for rehabilitation programs to provide needed services, utilizing knowledge of program funding sources and government regulations. Consult with community groups and personnel from rehabilitation agencies to identify need for new or modified vocational rehabilitation programs. Collect and analyse data to define and resolve rehabilitation problems, utilizing knowledge of vocational rehabilitation theory and practice. Monitor program operations and recommend additional measures to ensure programs meet defined needs. Plan and provide training for vocational rehabilitation staff.
- (69.6%) **Chemical Technician:** Conduct chemical and physical laboratory tests to assist scientists in making qualitative and quantitative analyses of solids, liquids and gaseous materials. Set up and conduct chemical experiments, tests and analyses, using techniques such as chromatography, spectroscopy, physical or chemical separation techniques or microscopy. Compile and interpret results of tests and analyses. Write technical reports. Maintain, clean, or sterilize laboratory instruments or equipment.
- (69.6%) **Professional Photographer:** Photograph subjects or newsworthy events, using still cameras, colour or black-and-white film, and variety of photographic accessories. Frame subject matter and background in lens to capture desired image. Select and assemble equipment and required background properties, according to subject, materials and conditions. Estimate or measure light level, distance and number of exposures needed, using measuring devices and formulas.
- (69.5%) **Creative Writer:** Create original written works, such as scripts, essays, prose, poetry or song lyrics for publication or performance. Confer with clients, editors, publishers or producers to discuss changes or revisions to written material. Conduct research to obtain factual information and authentic detail, using sources such as newspaper accounts, diaries and interviews. Arrange for copyrights of original material.
- (69.0%) **Exhibit Designer:** Design special exhibit sets. Examine objects to be included in exhibits in order to plan where and how to display them, or acquire materials for display. Prepare rough drafts and scale working drawings of sets, including floor plans, scenery and properties to be constructed. Direct and coordinate construction, erection or decoration activities.
- (68.8%) **Engineer - Environmental:** Research, design, plan, or perform engineering duties in the prevention, control, and remediation of environmental hazards using various engineering disciplines. Collaborate with environmental scientists, planners, hazardous waste technicians, engineers, and other specialists, and experts in law and business to address environmental problems. Provide environmental engineering assistance in network analysis, regulatory analysis, or planning or reviewing database development. Inspect industrial or municipal facilities or programs to evaluate operational effectiveness or ensure compliance

### Careers which have a moderate enjoyment percentage and suitability

- with environmental regulations.
- (68.8%) **Actor:** Study and rehearse roles from scripts in order to interpret, learn and memorize lines, stunts and cues as directed. Portray and interpret roles, using speech, gestures and body movements, in order to entertain, inform or instruct radio, film, television or live audiences. May be required to sing and/or dance during dramatic or comedic performances. Work with Directors, colleagues and other crewmembers responsible for lighting, costumes, makeup and props.
  - (68.3%) **Youth Worker:** Work with young people to encourage their growth and development. Select appropriate curricula or class structures for educational programs. Implement program plans. Collaborate with various others to develop ways to encourage program participation.
  - (68.3%) **Special Education Evaluator:** Observe student behaviour and rate strength and weakness of factors, such as motivation, cooperativeness, aggression and task completion. Test children to detect learning limitations and recommend follow-up activities, consultation or services. Confer with school or other personnel, and study records to obtain additional information on nature and severity of disability. Administer work-related tests and review records and other data to assess student vocational interests and abilities.
  - (68.2%) **Animal Caretaker:** Feed and water animals according to schedules and feeding instructions, including administration of medications. Examine and observe animals to detect signs of illness, disease or injury; provide treatment to sick or injured animals. Do facility laundry and clean, organize, maintain and disinfect animal quarters. Interact with animals' owners; take instructions and respond to queries.
  - (68.2%) **Meteorological Technician:** Analyse oceanographic and meteorological data to forecast changes in water, weather and sea conditions. Observe general weather conditions and visibility, and read test or measuring instruments to collect meteorological and oceanographic data. Prepare maps, charts, graphs and technical reports describing surface weather, upper air, and sea conditions. Prepare warnings or briefings regarding current or predicted environmental conditions.
  - (68.0%) **Human Resources Specialist - Organizational Development:** Apply a broad knowledge of all aspects of human resource development. Interact with management and employees regarding human resource development issues.
  - (67.9%) **Multimedia Designer:** Design complex graphics and animation, using independent judgment, creativity and computer equipment. Participate in design and production of multimedia campaigns, handling budgeting and scheduling and assisting with such responsibilities as production coordination, background design and progress tracking. Make objects or characters appear lifelike by manipulating light, colour, texture, shadow and transparency, or manipulating static images to give the illusion of motion. Apply story development, directing, cinematography and editing to animation to create storyboards that show the flow of the animation and map out key scenes and characters.
  - (67.9%) **Dancer:** Perform classical, modern or acrobatic dances in productions, expressing stories, rhythm and sound with the body. Train, exercise and attend dance classes to maintain high levels of technical proficiency, physical ability and physical fitness. Collaborate with choreographers in order to refine or modify dance steps. Attend costume fittings, photography sessions and makeup calls, associated with dance performances.
  - (67.6%) **Linguistic Scientist:** Trace origin and evolution of words and syntax through comparative analysis of ancient parent languages and modern language groups. Identify and classify obscure languages. Reconstruct and decipher ancient languages from examples found in archaeological remains. Prepare description of sounds, forms and vocabulary.
  - (67.5%) **Historian:** Research, analyse, record and interpret the past, as recorded in sources, such as government, institutional and personal records. Organize data, and analyse and interpret its authenticity and relative significance. Gather historical data from a wide variety of sources and trace historical development. Present historical accounts in terms of individuals or social, ethnic, political, economic or geographic groupings.
  - (67.4%) **University Chemistry Teacher:** Teach courses pertaining to the chemical and physical properties and compositional changes of substances. Prepare course materials, such as syllabi, homework assignments and handouts. Prepare and deliver lectures. Evaluate and grade students' class work and examinations, laboratory performance, assignments and papers. Supervise students' laboratory work.
  - (67.3%) **Employee Coaching or Counselling Specialist:** Coach employees to increase performance. Help employees with personal problems. Interact with managers to help them coach more effectively.
  - (67.2%) **Translator (Written):** Translate the meaning of text from one language into its equivalent in another language. Carefully analyse the meanings of words to achieve an accurate translation.
  - (67.1%) **Fashion Designer:** Sketch rough and detailed drawings of apparel or accessories, specify colour schemes, construction, material types and accessory requirements. Select materials and production techniques to be used for products. Direct and coordinate workers involved in drawing and cutting patterns and constructing samples or finished garments. Identify target markets for designs, looking at factors such as age, gender and socioeconomic status.
  - (67.1%) **Photographer - Scientific:** Photograph variety of subject material to illustrate or record scientific/medical data or phenomena, utilizing knowledge of scientific procedures and photographic technology and technique. Sight and focus camera to take pictures of subject material to illustrate or record scientific or medical data or phenomena. Observe and arrange subject material to desired position. Engage in research to develop new photographic procedure, materials and scientific data.
  - (67.1%) **Wedding Planner:** Consult with customers to determine requirements. Coordinate services for events, such as accommodation and transportation for participants, facilities, catering, signage, displays, special needs requirements, printing and event security. Monitor event activities to ensure compliance with applicable regulations and laws, satisfaction of participants and resolution of any problems that arise. Evaluate and select providers of services according to customer requirements, and negotiate contracts

### Careers which have a moderate enjoyment percentage and suitability

- with such service providers and suppliers as hotels, convention centres and speakers.
- (67.1%) **Educational Psychologist:** Investigate processes of learning and teaching, and develop psychological principles and techniques applicable to educational problems. Provide consultation to parents, teachers, administrators on topics such as learning styles and behaviour modification techniques. Compile and interpret students' test results to diagnose conditions and to help assess eligibility for special services. Assess an individual child's needs, limitations and potential.
  - (66.9%) **Geographer:** Study the nature and use of areas of the Earth's surface. Conduct research on physical aspects of a region, including land forms, climates, soils, plants and animals. Gather and compile geographic data from sources, including censuses, field observations, satellite imagery, aerial photographs and existing maps. Create and modify maps, graphs or diagrams, using geographical information software and related equipment.
  - (66.8%) **Translator (Verbal) - Interpreter:** Facilitate communication from one language into its equivalent in another language. Analyse the meaning and express a clear and accurate equivalent in the other language.
  - (66.6%) **Cartoonist, Animator:** Create special effects, animation, or other visual images using film, video or computers for use in computer games, movies, music videos and commercials. Create basic designs, drawings and illustrations, for product labels, cartons, direct mail or television. Script, plan and create animated narrative sequences under tight deadlines, using computer software and hand drawing techniques. Create storyboards that show the flow of the animation and map out key scenes and characters.
  - (66.4%) **University Psychology Teacher:** Teach university students in psychology. Prepare instructional materials and adapt teaching methods to meet students' varying needs and interests. Establish clear objectives for all lessons, units and projects, and communicate these objectives to students.
  - (66.4%) **University Engineering Teacher:** Teach courses pertaining to Engineering. Prepare and deliver lectures to undergraduate or graduate students. Prepare course materials, such as syllabi, homework assignments and handouts. Evaluate and grade students' class work, assignments and papers.
  - (66.3%) **Oceanographer:** Study and explain the intricate interactions between fresh water, seawater, polar ice caps, the biosphere and the atmosphere - contributing information to areas such as weather prediction, pollution, shipping, fisheries, mineral exploitation, coastal construction, renewable energy and climate change. Gather samples and data from the ocean, ocean floor or atmosphere, to analyse for normal or contaminant composition. Analyse, interpret and predict data collected from matter and life forms found in the sea. Participate in research expeditions to expand knowledge and research capabilities.
  - (66.1%) **Patent Examiner:** Assess and examine applications for patents granted to inventors to check that the invention is new, not merely an adjustment to something which already exists. Ensure applications meet the formal requirements of the Intellectual Property Office and is technically sound. Examine the invention from a technical standpoint to ascertain that the invention is described clearly and in such a way that a skilled person would be able to use it. Consider legal matters affecting acceptability and entitlement to the monopoly claimed by the applicant. Search through publications, technical literature and databases to ensure application is novel and prepare report on the results of the search.
  - (66.1%) **Urban and Regional Planner:** Develop comprehensive plans and programs for use of land and physical facilities of cities, counties, and metropolitan areas. Compile, organize, and analyse data on economic, social, and physical factors affecting land use, using statistical methods. Review and evaluate environmental impact reports applying to specific private and public planning projects and programs to determine feasibility of proposals or to identify factors requiring amendment. Advise planning officials on feasibility, cost-effectiveness, regulatory conformance, and alternative recommendations for project.
  - (65.9%) **Mapping Technician:** Calculate mapmaking information from field notes, and draw and verify accuracy of topographical maps. Check all layers of maps to ensure accuracy, identifying and marking errors and making corrections. Determine scales, line sizes or colours to be used for hard copies of computerized maps, using plotters. Monitor mapping work or the updating of maps to ensure accuracy, the inclusion of new or changed information, or compliance with rules and regulations.
  - (65.7%) **Geographic Information Systems Specialist:** Assist scientists and related professionals in building, maintaining, modifying or using geographic information systems (GIS) databases. Design or prepare graphic representations of Geographic Information Systems (GIS) data, using GIS hardware or software applications. Analyse GIS data to identify spatial relationships. Maintain or modify existing GIS databases.
  - (65.6%) **Engineer - Solar Energy Technology:** Research solar energy technology. Oversee the manufacturing process. Improve productivity yield. Conduct failure analysis.
  - (65.4%) **Engineer - Product Safety:** Develop and conduct tests to evaluate product safety levels and recommend measures to reduce or eliminate hazards. Investigate causes of accidents, injuries, or illnesses related to product usage in order to develop solutions to minimize or prevent recurrence. Evaluate potential health hazards or damage that could occur from product misuse. Conduct research to evaluate safety levels for products.
  - (65.4%) **Engineer - Fire Prevention:** Research causes of fires; determine fire protection methods; and design or recommend materials or equipment. Design fire detection equipment, alarm systems and fire extinguishing devices and systems. Inspect buildings or building designs to determine fire protection system requirements. Advise architects, builders and other construction personnel on fire prevention equipment and compliance.
  - (65.3%) **PCB Wiring Engineer:** Map out PCB (Printed Circuit Board) circuits. Draft PCB circuit diagram. Electromagnetic interference inspection. Plan PCB testing. Resolve circuit problems.
  - (65.1%) **Camera Operator - Television, Video or Film:** Operate television, video or motion picture cameras to record scenes for television broadcasts, advertising or motion pictures. Compose and frame each shot with attention to light, lenses, film, filters and

### Careers which have a moderate enjoyment percentage and suitability

- camera settings to achieve specific effects. Edit video for broadcast productions, including non-linear editing. Confer with directors and other crew members to determine filming sequences and desired effects.
- (65.1%) **University Physical Science Teacher:** Teach university students in physical science. Prepare instructional materials and adapt teaching methods to meet students' varying needs and interests. Establish clear objectives for all lessons, units and projects and communicate these objectives to students.
- (64.9%) **Animal Trainer:** Evaluate animals to determine their temperaments, abilities or aptitude for training. Conduct training programs in order to develop and maintain desired animal behaviours for competition, entertainment, obedience, security, riding and related areas. Cue or signal animals using knowledge of breed characteristics, training methods and rewards, performance standards and the peculiarities of each animal. Advise animal owners regarding the purchase of specific animals.
- (64.9%) **Anthropologist:** Research, evaluate and establish public policy concerning the origins of humans and the cultures, organizations and institutions they have created. Study archival collections. Identify culturally specific beliefs and practices affecting health status and access to services for distinct populations and communities. Participate in forensic activities such as tooth and bone structure identification.
- (64.8%) **Mining Engineer:** Select locations and plan underground or surface mining operations, specifying processes, labour usage and equipment. Design, implement, and monitor the development of mines, facilities, systems or equipment. Inspect mining areas for unsafe structures, equipment and working conditions. Prepare technical reports for use by mining, engineering and management personnel.
- (64.6%) **Secondary School Science Teacher:** Instruct students, using various teaching methods, such as lecture and demonstration, as well as assign lessons and correct homework. Prepare course outlines and objectives according to curriculum guidelines or state and local requirements, develop and administer tests. Evaluate, record and report student progress. Confer with students, parents and school counsellors to resolve behavioural and academic problems.
- (64.5%) **Psychiatric Technician:** Provide nursing care to mentally ill, emotionally disturbed or mentally retarded patients. Participate in rehabilitation and treatment programs, and help with personal hygiene. Administer oral medications and hypodermic injections, following physician's prescriptions and hospital procedures. Monitor patient's physical and emotional well-being and report to medical staff. Take and record measures of patient's general physical condition, such as pulse, temperature and respiration, to provide daily information. Lead prescribed individual or group-therapy sessions as part of specific therapeutic procedures.
- (64.3%) **RF Communications Engineer:** Set up, oversee base station. Support telecommunications tasks. Maintain base station equipment. Manage data related to telecommunications research and development.
- (64.2%) **Auto control Engineer - Aerospace:** Draw new aircraft structure design for assembly and parts planning. Maintain automatic control systems, exception handling. Conduct automatic control system maintenance and problem analysis. Research new equipment and develop methods for improved implementation. Write plans for the automatic control systems for equipment operation. Write automation equipment and system interface standards as well as other the relevant documents.
- (64.2%) **Social Worker-Medical Psychiatric:** Counsel clients and patients, individually and in group sessions, to assist in overcoming dependencies, adjusting to life and making changes. Interview clients, review records and confer with other professionals to evaluate mental or physical condition of client or patient. Formulate or coordinate program plan for treatment, care and rehabilitation of client or patient, based on social work experience and knowledge. Monitor, evaluate and record client progress, according to measurable goals described in treatment and care plan.
- (64.1%) **Engineer - Hydroelectric:** Plan and design tools, engines, machines and other mechanically functioning equipment. Oversee the installation, operation, maintenance and repair of equipment such as centralized heat, gas, water and steam systems. Establish or coordinate the maintenance or safety procedures, service schedule, or supply of materials required to maintain machines or equipment in the prescribed condition.
- (64.1%) **Genealogist:** Research, analyse, record, and interpret ancestral data and family records from a variety of institutional and personal sources. Organize data, and analyse and interpret its authenticity and relative significance. Trace decendency in a particular field, such as social, cultural, political or diplomatic history. Prepare publications and exhibits, or review those prepared by others in order to ensure their accuracy.
- (64.0%) **Civil Engineering Technician:** Draft detailed dimensional drawings and design layouts for projects, and ensure conformance to specifications. Inspect project site and evaluate contractor work to detect design malfunctions and ensure conformance to design specifications and applicable codes. Develop plans and estimate costs for installation of systems, utilization of facilities or construction of structures. Respond to public suggestions and complaints.
- (64.0%) **Mediator & Arbitrator:** Facilitate negotiation and conflict resolution through dialogue. Confer with disputants to clarify issues and develop an understanding of their respective needs and interests. Analyse evidence and apply relevant laws. Determine existence and amount of liability. Prepare written opinions or decisions regarding cases.
- (64.0%) **Veterinarian Assistant:** Assist veterinarian in variety of animal health-care duties, including injections, venipunctures and wound dressings. Prepare examination or treatment room, prepare patient, medications, equipment, and hold or restrain animal during procedures. Assist veterinarian during surgical procedures, passing instruments and materials in accordance with oral instructions. Complete routine laboratory tests and care for and feed laboratory animals.
- (63.7%) **Engineer - Electronic Safety:** Inspect facilities, machinery and safety equipment to identify and correct potential hazards, and to ensure safety regulation compliance. Maintain liaisons with outside organizations such as fire departments, mutual aid societies and rescue teams, so that emergency responses can be facilitated. Report or review findings from accident investigations, facilities inspections or environmental testing. Conduct or coordinate worker training in areas such as safety laws and



### Careers which have a moderate enjoyment percentage and suitability

- regulations, hazardous condition monitoring and use of safety equipment.
- (63.6%) **Naval Architect:** Design, develop, and install ship machinery and related equipment including propulsion machines and power supply systems. Prepare plans, estimates, design and construction schedules, and contract specifications, including any special provisions. Evaluate operation of marine equipment during acceptance testing and shakedown cruises. Conduct analytical, environmental, operational, or performance studies to develop designs for products, such as marine engines, equipment, and structures.
  - (63.6%) **Broadcast Technician:** Set up, operate and maintain the electronic equipment used to transmit radio and television programs. Monitor strength, clarity and reliability of incoming and outgoing signals and adjust equipment as necessary to maintain quality broadcasts. Regulate the fidelity, brightness and contrast of video transmissions. Control audio equipment to regulate the volume and sound quality.
  - (63.3%) **Engineer - Electrical:** Research, design, develop, test, or supervise the manufacturing and installation of electrical equipment, components, or systems. Perform detailed calculations to compute manufacturing, construction, or installation standards or specifications. Oversee project production efforts to assure projects are completed on time and within budget. Design, implement, maintain, or improve electrical instruments, equipment, facilities, components, products, or systems.
  - (63.2%) **Cartographer, Photogrammetrist:** Collect, analyse, and interpret geographic information provided by geodetic surveys, aerial photographs and satellite data. Compile data required for map preparation, including aerial photographs, survey notes, records, reports and original maps. Research, study, and prepare maps and other spatial data in digital or graphic form. May work with Geographic Information Systems (GIS). May design and evaluate algorithms, data structures and user interfaces for GIS and mapping systems.
  - (62.8%) **Wood Technologist:** Conduct research to determine composition, properties, behaviour, utilization, development, treatments and processing methods of wood and wood products. Study methods of curing wood to determine best and most economical procedure. Investigate processes for converting wood into commodities, such as alcohol, veneer, plywood, wood plastics and other uses, as well as methods of turning waste wood materials into useful products. Conduct tests to determine ability of wood adhesives to withstand water, oil penetration and temperature extremes.
  - (62.3%) **Manual Arts Therapist:** Plan or conduct art therapy sessions or programs to improve clients' physical, cognitive or emotional well-being. Assess client needs or disorders, using drawing, painting, sculpting or other artistic processes. Analyse data to determine the effectiveness of treatments or therapy approaches. Develop individualized treatment plans that incorporate studio art therapy, counselling or psychotherapy techniques.
  - (62.3%) **Soil Conservationist:** Plan soil management practices, such as crop rotation, reforestation, permanent vegetation, contour ploughing, or terracing, to maintain soil and conserve water. Develop plans for conservation, such as conservation cropping systems, woodlands management, pasture planning and engineering systems. Conduct surveys and investigations of various land uses, analyse results of investigations to determine measures needed to maintain or restore proper soil management. Monitor projects during and after construction to ensure projects conform to design specifications.
  - (62.1%) **Stock and Inventory Clerk:** Receive, store, and issue sales floor merchandise. Stock shelves, racks, cases, bins, and tables with merchandise and arrange merchandise displays to attract customers. Take inventory. Requisition merchandise from supplier, based on available space, merchandise on hand, customer demand or advertised specials.
  - (61.9%) **Materials Engineer:** Evaluate materials and develop machinery and processes to manufacture materials for use in products. Analyse product failure data and laboratory test results to determine causes of problems and to develop solutions. Monitor material performance and evaluate material deterioration. Evaluate technical specifications and economic factors relating to process or product design objectives.
  - (61.8%) **Model:** Model garments or other apparel and accessories for prospective buyers at fashion shows, private showings or retail establishments. Work closely with photographers, fashion coordinators, directors, producers, stylists, make-up artists, other models and clients to produce the desired looks, and to finish photo shoots on schedule. Pose as directed, or strike suitable interpretive poses for promoting and selling merchandise or fashions during appearances, filming or photo sessions. Assemble and maintain portfolios, print composite cards and travel to go-sees to obtain jobs.
  - (61.7%) **Geologist:** Analyse and interpret geological, geochemical or geophysical information from sources such as survey data, well logs, bore holes or aerial photos. Locate and estimate probable natural gas, oil or mineral ore deposits. Plan or conduct geological, geochemical or geophysical field studies. Prepare geological maps, cross-sectional diagrams, charts or reports.
  - (61.4%) **Secondary School English Teacher:** Instruct students, using various teaching methods, such as lecture and demonstration, as well as assign lessons and correct homework. Prepare course outlines and objectives according to curriculum guidelines or state and local requirements, develop and administer tests. Evaluate, record and report student progress. Confer with students, parents and school counsellors to resolve behavioural and academic problems.
  - (61.3%) **Actuary:** Ascertain premium rates required and cash reserves and liabilities necessary to ensure payment of future benefits. Design, review and help administer insurance, annuity and pension plans, determining financial soundness and calculating premiums. Analyse statistical information to estimate mortality, accident, sickness, disability and retirement rates. Construct probability tables for events, such as fires, natural disasters and unemployment, based on analysis of statistical data and other pertinent information.
  - (61.2%) **Electronic Drafter:** Draw wiring diagrams, circuit board assembly diagrams, schematics and layout drawings used for manufacture, installation and repair of electronic equipment. Consult with engineers to discuss and interpret design concepts, and determine requirements of detailed working drawings. Draft detail and assembly drawings of design components. Examine

### Careers which have a moderate enjoyment percentage and suitability

- electronic schematics and supporting documents to develop, compute and verify specifications for drafting data.
- (61.2%) **Tour Guide:** Escort group on city and establishment tours, describes points of interest, and respond to questions. Drive motor vehicle to transport visitors to establishments and tour site locations, and provide directions and other pertinent information to visitors. Monitor visitors' activities and ensure compliance with establishment regulations, for safety of group. Solicit tour patronage and collect fees and tickets from group members.
- (61.1%) **Multimedia Engineer:** Create special effects, animation or other visual images using film, video, computers or other electronic tools and media, for use in products or creations, such as computer games, movies, music videos and commercials. Create two-dimensional and three-dimensional images depicting objects in motion or illustrating a process, using computer animation or modelling programs. Develop briefings, brochures, multimedia presentations, web pages, promotional products, technical illustrations and computer artwork, for use in products, technical manuals, literature, newsletters and slide shows.
- (61.1%) **PCB Technician:** Repair, test, adjust, or install electronic equipment, such as industrial controls, transmitters and antennas. Test faulty equipment to diagnose malfunctions, using test equipment or software and applying knowledge of the functional operation of electronic units and systems. Examine work orders and converse with equipment operators to detect equipment problems, and to ascertain whether mechanical or human errors contributed to the problems. Develop or modify industrial electronic devices, circuits or equipment, according to available specifications.
- (60.9%) **Secondary School Arts Teacher:** Instruct students, using various teaching methods, such as lecture and demonstration, as well as assign lessons and correct homework. Prepare art course outlines and objectives according to curriculum guidelines or state and local requirements, develop and administer tests. Evaluate, record and report student progress. Confer with students, parents and school counsellors to resolve behavioural and academic problems.
- (60.9%) **University Foreign Language Teacher:** Teach courses in foreign language and literature, including linguistics and comparative literature. Prepare course materials, such as syllabi, homework assignments and handouts. Prepare and deliver lectures to undergraduate or graduate students. Initiate, facilitate and moderate classroom discussions. Evaluate and grade students' class work, assignments and papers.
- (60.9%) **Customs Broker:** Classify goods according to tariff coding system. Prepare customs documentation and ensure that shipments meet all applicable laws to facilitate the import and export of goods. Determine and track duties and taxes payable and process payments on behalf of client. Sign documents under a power of attorney and represent clients in meetings with customs officials.
- (60.8%) **Lighting Technician:** Set up and operate lighting equipment in television and in film, liaise with the director and/or other staff to interpret their creative vision into the lighting design. Establish lighting requirements, coordinate equipment as required. Assemble all the lighting and filter equipment needed, ensure all lighting equipment is in working order and organize any necessary scaffolding and cranes. Program and operate lighting consoles.
- (60.7%) **University English Teacher:** Teach courses in English language and literature, including linguistics and comparative literature. Prepare course materials, such as syllabi, homework assignments and handouts. Prepare and deliver lectures to undergraduate or graduate students. Initiate, facilitate and moderate classroom discussions. Evaluate and grade students' class work, assignments and papers.
- (60.6%) **Film Editor:** Organize and string together raw footage into a continuous whole. Trim film segments to specified lengths, and reassemble segments in sequences that present stories with maximum effect. Using editing equipment, edit films and videotapes to insert music, dialogue, and sound effects. Verify key numbers and time codes on materials; mark frames for beginning or ending.
- (60.6%) **Computer Assembler and Tester:** Assemble or modify computer equipment. Read and interpret schematic drawings, diagrams, blueprints, specifications, work orders or reports to determine materials requirements or assembly instructions. Explain assembly procedures or techniques to others. Position, align or adjust work pieces or electrical parts to facilitate wiring or assembly. Adjust, repair or replace electrical or electronic component parts to correct defects and to ensure conformance to specifications. Pack finished assemblies for shipment or transport.
- (60.3%) **Industrial Safety Inspector:** Inspect processes and work procedures to ensure sound safety practices. Investigate accidents to determine whether any safety law has been breached. Inspect workers' safety clothing and equipment to ensure adequacy. Inspect machinery for operation within recommended guidelines for emissions, heat and noise. Prepare written reports on findings. Initiate proceedings for notices, warnings or prosecution under industrial safety laws.
- (60.3%) **Child Care Worker:** Attend to children at schools, businesses, private households and childcare institutions. Perform a variety of tasks, such as dressing, feeding, bathing and overseeing play. Maintain a safe play environment. Sanitize toys and play equipment. Communicate with children's parents or guardians about daily activities, behaviours and related issues.
- (60.2%) **Veterinarian:** Examine animal to detect and determine nature of disease or injury, and treat animal surgically or medically. Establish and conduct quarantine and testing procedures to prevent spread of disease and comply with governmental regulations. Inspect housing and advise animal owners regarding sanitary measures, feeding and general care to promote health of animals. Participate in planning and executing nutrition and reproduction programs for animals.
- (60.0%) **Engineer - LCD Equipment:** Match LCD equipment to project and ODF assembly for manufacturing and process-yield improvement and equipment maintenance. Create a guide manual for machine operations and parameters; improve capacity, reduce costs, and other improvement-related activities. Train on-site personnel to become familiar with machine operations and production mechanisms; control machinery's operational status. Advance the yield of LCD manufacturing equipment, new and original materials evaluation, abnormal product cause analysis, data interpretation, statistic skills. Improve the automation of machinery, equipment adjustments, machine replacement or adjustment and substitution evaluation. Handle abnormal

### Careers which have a moderate enjoyment percentage and suitability

- (60.0%) equipment problems, equipment management and maintenance, and propose and plan equipment manufacturing improvements.
- Clergy:** Conduct religious worship and perform other spiritual functions associated with beliefs and practices of religious faith or denomination. Provide spiritual and moral guidance and assistance to members. Prepare and deliver sermons or other talks. Visit people in homes, hospitals or prisons to provide them with comfort and support.

### Careers which have a low enjoyment percentage and suitability

- (59.9%) **University Art Teacher:** Teach courses in the arts including fine and applied art, such as painting and sculpture, or design and crafts. Explain and demonstrate artistic techniques. Evaluate and grade students' class work, performances, projects, assignments and papers. Prepare and periodically revise course materials, such as syllabi, homework assignments and handouts.
- (59.9%) **Electronic Mechanic, Technician:** Operate, test, maintain or calibrate unmanned, automated, servo-mechanical or electromechanical equipment such as robots. Read blueprints, schematics, diagrams or technical orders to determine methods and sequences of assembly. Install electrical or electronic parts and hardware in housings or assemblies. Test performance of electromechanical assemblies.
- (59.7%) **Electronics Engineering Technician:** Test or modify operational or developmental electronic machinery or electronic control equipment in industrial plants or laboratories. Set up and operate test equipment to evaluate performance under simulated operating conditions, and record results. Assemble or modify electronic systems and prototypes. Build, calibrate, maintain, troubleshoot or repair electronic instruments or testing equipment.
- (59.7%) **Environmental Science Technician:** Perform laboratory and field tests to monitor the environment and investigate sources of pollution. Collect samples of gases, soil, water and other materials for testing, record data and prepare reports. Develop or implement programs for monitoring of environmental pollution or radiation. Maintain files, such as hazardous waste databases, chemical usage data, personnel exposure information.
- (59.7%) **Human Resources Specialist - All Functions:** Apply a broad knowledge of all aspects of human resources. Interact with management and employees regarding human resource issues.
- (59.5%) **Artificial Breeding Technician:** Collect and package semen for artificial insemination of female animal. Examine semen, using microscope, to determine density and motility of gametes. Dilute semen with prescribed diluents, according to formulas. Label semen with identifying data, such as date taken, source, quality, concentration, and maintains data on file.
- (59.5%) **Public Relations Specialist (Government Focus):** Conduct public relations for the company with the government. Use interpersonal skills to manage relationships.
- (59.5%) **Bartender:** Mix and serve drinks to patrons, directly or through wait staff. Collect money for drinks served and balance cash receipts. Clean glasses, utensils and bar equipment, bars, work areas and tables. Stock bar with beer, wine, liquor and related supplies.
- (59.5%) **Estimator, Drafter - Utilities:** Develop specifications and instructions for the installation of infrastructure, structures and equipment for the conduct of electricity, water, gas or telephony services from generators to consumers. Draft working drawing, wiring diagrams, wiring connections, cables, pipes or cross section of underground cables, as required for instructions to installation crew. Estimate labour and material costs for installation of equipment and distribution systems. Confer with engineering staff and other personnel to resolve problems.
- (59.5%) **Teacher for Emotionally Impaired:** Teach socially acceptable behaviour, employing techniques such as behaviour modification and positive reinforcement. Instruct students, using special educational strategies and techniques to improve sensory-motor and perceptual-motor development, memory, language and cognition. Plan curriculum and other instructional materials to meet student's needs, considering such factors as physical, emotional and educational abilities. Confer with parents, administrators, testing specialists, social workers and others to develop individual educational plan for student.
- (59.4%) **Sound Technician:** Install, maintain and repair sound and intercommunication systems, multiple antenna systems, closed circuit TV systems and associated apparatus. Test and repair equipment, using hand tools, soldering iron and electronic test meters. Test installation to verify proper functioning, by listening to sound and testing output. Drive sound truck.
- (59.4%) **Private Child Monitor:** Care for children in private households by undertaking meal preparation and feeding, laundry and clothing care, diaper changing and toilet training. Organize and conduct age-appropriate recreational activities, such as games, arts and crafts, sports, walks and play dates. Instruct and discipline children in desirable behaviours. Meet regularly with parents and provide them with support and expertise in satisfying children's physical, emotional, intellectual and social needs.
- (59.4%) **Reliability Engineer:** Control the quality of materials. Conduct reliability analysis, and reliability verification of components or products. Correct abnormal problems, improve product quality. RMA analysis and processing. Draft testing reports and propose reliability improvement advice.
- (59.4%) **University Humanities Teacher:** Teach university students in humanities. Prepare instructional materials and adapt teaching methods to meet students' varying needs and interests. Establish clear objectives for all lessons, units and projects, and communicate these objectives to students.
- (59.3%) **Equal Employment Opportunity or Affirmative Action Specialist:** Apply rules and regulations related to equal opportunity and affirmative action legislation. Interact with management and employees regarding related issues.
- (59.2%) **Landscape Architect:** Plan and design land areas for parks and other recreational facilities, airports, highways, hospitals, schools and land subdivisions. Prepare site plans, specifications and cost estimates for land development. Prepare graphic representations or drawings of proposed plans or designs, and confer with clients on overall program. Collaborate with architects

### Careers which have a low enjoyment percentage and suitability

- or related professionals on design to maximize the aesthetic or practical features.
- (59.1%) **Archaeologist:** Conduct research to reconstruct record of past human life and culture from human remains, artefacts, architectural features and structures, recovered through excavation, underwater recovery or other means of discovery. Research, survey or assess sites of past societies and cultures in search of answers to specific research questions. Compare findings from one site with archaeological data from other sites to find similarities or differences. Write, present and publish reports.
  - (59.1%) **Audiovisual Technician:** Set up, or set up and operate audio, video and related electronic equipment for concerts, sports events, meetings and news conferences. Install, adjust, and operate electronic equipment to record, edit and transmit radio and television programs, motion pictures, video conferencing or multimedia presentations. Diagnose and resolve media system problems. Perform minor repairs and routine cleaning of audio and video equipment.
  - (59.1%) **Aerospace Engineering Technician:** Inspect, diagnose, maintain and operate test setups and equipment to detect malfunctions. Record and interpret test data on parts, assemblies and mechanisms. Confer with engineering personnel regarding details and implications of test procedures and results. Adjust, repair or replace faulty components of test setups and equipment.
  - (59.0%) **Mathematician:** Conduct research in fundamental mathematics or in application of mathematical techniques to science, management and other fields. Solve problems in various fields using mathematical methods. Develop computational methods for solving problems. Develop mathematical or statistical models to be used for analysis or for computational simulation.
  - (58.7%) **Employee Recruitment & Selection Specialist:** Analyse jobs and organize recruitment campaigns. Interact with managers to determine requirements. Interview applicants to assess their qualifications and behavioural fit.
  - (58.5%) **Security System Technician:** Install alarm system in the designated place. Manage and maintain surveillance system equipment. Maintenance of all kinds of sensors and alarms. Troubleshoot security system.
  - (58.4%) **University Science Teacher:** Teach courses pertaining to science concepts, statistics and actuarial science. Prepare and deliver lectures to undergraduate or graduate students on science-related topics. Prepare course materials, such as syllabi, homework assignments and handouts. Evaluate and grade students' class work, assignments and papers.
  - (58.3%) **Mathematical Technician:** Apply standardized mathematical formulas, principles and methodology to technological problems in engineering and physical sciences. Reduce raw data to meaningful terms and translate data into numbers, equations, flow charts, graphs or other forms. Confer with scientific or engineering personnel to plan projects. Modify standard formulas so that they conform to project needs and data processing methods.
  - (58.0%) **Engineer - Ceramic:** Direct the processing of the natural raw minerals and synthetic materials used to make ceramics. Develop new ceramic products and develop methods and equipment for processing ceramic materials or develop new uses for existing ceramic materials such as glass, porcelain, brick and cement. Undertake research into new ceramic materials that can be produced synthetically or from minerals found in the earth, such as ceramics for superconductivity. Undertake improvements to existing ceramic materials such as improving heat and fire resistance.
  - (57.8%) **Marine Architect:** Design complete hull and superstructure of marine craft such as ships and boats, according to specifications and test data and in conformity with safety standards. Design layout of craft interior including cargo and passenger spaces, wells and elevators. Evaluate performance of craft during dock and sea trials to determine necessary design changes. Oversee construction and testing of prototype in model basin.
  - (57.6%) **Optics Engineer:** Analysis and development. Optical film design. Product testing and verification. Resolution of product problems. Integration of product manufacturing process.
  - (57.6%) **Professional Athlete:** Participate in athletic events and competitive sports according to established rules and regulations. Play professional sports and is identified according to sport played such as football, basketball, baseball, hockey or boxing. Exercise and practice under direction of athletic trainer or professional coach to prepare and train for competitive events. Represent team or professional sports club, speaking to groups involved in activities, such as sports clinics and fund raisers.
  - (57.5%) **Textile Science Technician:** Perform standardized tests to determine chemical characteristics of fibre, such as shrinkage, absorbency, colour value, fading or fire retardancy. Photograph, develop and print samples of fibres, using micro photographic and photographic equipment, examine photographs or samples under microscope to determine its characteristics. Select dyes and develop colour formulas and colour charts to match textile product to customer specifications. Inspect finished material for conformance to plant and customer specifications.
  - (57.5%) **Face-to-Face Customer Service Specialist (Friendliness Focus):** Greet customers in a face-to-face situation. Create friendly and positive customer interactions. Selling is NOT required. A high level of efficiency is NOT required.
  - (57.4%) **Museum Technician, Conservator:** Restore, maintain, or prepare objects in museum collections for storage, research, or exhibit. Install, arrange, assemble, and prepare artefacts for exhibition. Prepare artefacts for storage and shipping, and photograph objects for documentation. Lead tours and teach educational courses to students and the general public.
  - (57.4%) **Agricultural Animal Scientist:** Conduct research in the genetics, nutrition, reproduction, growth and development of domestic farm animals. Conduct research concerning animal nutrition, breeding or management to improve products or processes. Study effects of management practices, processing methods, feed or environmental conditions, on quality and quantity of animal products. Advise producers about improved products and techniques that could enhance their animal production efforts. Research and control animal selection and breeding practices to increase production efficiency and improve animal quality.
  - (57.1%) **Advertising Specialist (Ad Design Focus):** Create the design for advertising. Analyse and create optimal presentations that will influence people to purchase.
  - (57.0%) **Prepress Printing Technician:** Format and proof text and images submitted by designers and clients into finished pages that



### Careers which have a low enjoyment percentage and suitability

- can be printed. Enter, position and alter text size, using computers, to make up and arrange pages so that printed materials can be produced. Operate and maintain a variety of cameras and equipment, such as process, line, halftone, and colour separation cameras, enlargers, electronic scanners and contact equipment. Mount negatives and plates in cameras, set exposure controls, and expose plates to light through negatives in order to transfer images onto plates. Examine finished plates to detect flaws, verify conformity with master plates, and measure dot sizes and centres, using light-boxes and microscopes.
- (56.9%) **Hotel Desk Clerk:** Greet, register, and assign rooms to guests of hotels or motels, issue room keys. Post charges, such those for food, liquor, or telephone calls. Compute bills, collect payments, and make change for guests. Perform bookkeeping activities, such as balancing accounts and conducting nightly audits. Contact housekeeping or maintenance staff when guests report problems.
- (56.9%) **Product Maintenance Specialist:** Monitor product performance on a regular basis. Manage product specifications to ensure consistency and quality in meeting standards and requirements. Provide after-sales service to solve or troubleshoot customers' problem. Keep maintenance record of product for future reference and for management reporting. Keep parts purchasing records, quotation and set up product database. Monitor product assembly, regular maintenance and product testing.
- (56.6%) **Environmental Scientist:** Conduct research or perform investigation for the purpose of identifying, abating or eliminating sources of pollutants or hazards. Collect, synthesize, analyse, manage and report environmental data. Analyse data to determine validity, quality and scientific significance, and to interpret correlations between human activities and environmental effects. Communicate scientific or technical information and research results in writing or through briefings.
- (56.6%) **Textile Chemistry Engineer:** Develop and test models of alternate designs and processing methods to assess feasibility, operating condition effects, possible new applications and necessity of modification. Research and analyze customer design proposals, specifications, manuals or other data, to evaluate the feasibility, cost or maintenance requirements of designs or applications. Develop, improve or customize products, equipment, formulas, processes or analytical methods. Confer with scientists or engineers to conduct analyses of research projects, interpret test results or develop nonstandard tests. Direct, coordinate or advise personnel in test procedures for analysing components or physical properties of materials.
- (56.5%) **Statistician:** Apply statistical methodology to provide information for scientific research and statistical analysis. Plan methods to collect information and develop questionnaire techniques according to survey design. Analyse and interpret statistics to identify significant differences in relationships among sources of information. Develop and test experimental designs, sampling techniques and analytical methods, and prepare recommendations concerning their use.
- (56.4%) **University Math Teacher:** Teach courses pertaining to mathematical concepts, statistics, and actuarial science. Prepare and deliver lectures to undergraduate or graduate students on topics such as linear algebra, differential equations and discrete mathematics. Prepare course materials, such as syllabi, homework assignments and handouts. Evaluate and grade students' class work, assignments and papers.
- (56.4%) **Engineer - Electronics:** Research, design, develop, or test electronic components and systems. Design electronic circuits and components for use in fields such as telecommunications, aerospace guidance and propulsion control, acoustics or instruments and controls. Analyse system requirements, capacity, cost and customer needs, to determine feasibility of project and develop system plan. Evaluate operational systems, prototypes and proposals, and recommend repair or design modifications.
- (56.3%) **Wardrobe Specialist:** Inventory stock to determine types and condition of costuming available, and select costumes based on historical analysis and studies. Examine costume fit on cast member, and sketch or write notes for alterations. Repair, alter, clean, press and refit costume prior to performance, and clean and store costume following performance. Assist cast in donning costumes or assign cast dresser to assist specific cast members with costume changes.
- (56.2%) **Special Education Teacher:** Guide and counsel students with adjustment or academic problems, or special academic interests. Prepare, administer and grade tests and assignments to evaluate students' progress. Employ special educational strategies and techniques during instruction to improve the development of sensory- and perceptual-motor skills, language, cognition and memory. Confer with parents, administrators, testing specialists, social workers and professionals to develop individual educational plans designed to promote students' educational, physical, and social development.
- (56.2%) **Occupational Therapist:** Plan, organize and participate in medically-oriented occupational programs in hospital or similar institution, to rehabilitate patients who are physically or mentally ill. Plan programs and social activities to help patients learn work skills and adjust to disabilities. Select activities which will help individual learn work skills within limits of individual's mental and physical capabilities. Train nurses and other medical staff in therapy techniques and objectives.
- (56.2%) **Digital IC Design Engineer:** Substance and layout design. Testing, verification, and measurement. Cost control. Technical support.
- (56.1%) **Public Relations Specialist (Media Focus):** Conducts public relations through media such as television or radio. Respond to requests for information from the media or designate an appropriate spokesperson or information source. Study the objectives, promotional policies, or needs of organizations to develop public relations strategies that will influence public opinion or promote ideas, products, or services. Plan or direct development or communication of informational programs to maintain favourable public or stockholder perceptions of an organization's accomplishments or agenda. Establish or maintain cooperative relationships with representatives of community, consumer, employee, or public interest groups. Prepare or edit organizational publications for internal and external audiences, including employee newsletters and stockholders' reports.
- (56.0%) **Firmware Testing Engineer:** Design and develop detailed test plans and procedures for verifying product firmware. Create, implement, maintain and recommend changes to test procedures and instructions, test software, and product evaluation processes. Execute testing in support of development projects in an accurate and timely fashion. Testing may include regression

### Careers which have a low enjoyment percentage and suitability

- testing, performance testing, durability or accelerated durability testing, or environmental testing.
- (56.0%) **Engineer - Civil:** Plan, design and oversee construction and maintenance of building structures and facilities, such as roads, railroads, airports, bridges, harbours and sewage systems. May direct staff members and the construction, operations or maintenance activities at project site. Estimate quantities and cost of materials, equipment or labour, to determine project feasibility. Provide technical advice regarding design, construction or program modifications and structural repairs to industrial and managerial personnel.
  - (55.7%) **Aviation Inspector:** Inspect aircraft, maintenance procedures, air navigational aids, air traffic controls, and communications equipment to ensure conformance with safety regulations. Inspect work of aircraft mechanics performing to ensure adherence to standards and procedures. Examine maintenance records and flight logs to determine if service and maintenance checks and overhauls were performed at prescribed intervals. Investigate air accidents and complaints to determine causes.
  - (55.7%) **Advertising Copywriter:** Create written content for advertising. Analyse and create optimal advertising scripts that will influence people to purchase.
  - (55.6%) **Biochemist:** Study the chemical composition or physical principles of living cells and organisms. Study the chemistry of living processes such as cell development, breathing and digestion, and living energy changes, such as growth, aging and death. May conduct research to further understanding of the complex chemical combinations and reactions involved in metabolism, reproduction, growth, and heredity. Prepare reports and recommendations, based upon research outcomes.
  - (55.5%) **Micro-electromechanical Engineer:** Design and develop micro-electro mechanical system components. Design and develop transducers. Test micro-mechanical systems components. Design analogue circuits. Stay in close communication with manufacturers for purchasing.
  - (55.4%) **Logistic Technician:** Work as part of a team that plans, directs or coordinates purchasing, warehousing, distribution, forecasting, customer service, supply chains, risk scenarios or emergency scenarios. Analyse the financial impact of proposed logistical changes, such as routing, shipping modes, product volumes, mixes or carriers.
  - (55.3%) **Secondary School Math Teacher:** Instruct students, using various teaching methods, such as lecture and demonstration, as well as assign lessons and correct homework. Prepare course outlines and objectives according to curriculum guidelines or state and local requirements, develop and administer tests. Evaluate, record and report student progress. Confer with students, parents and school counsellors to resolve behavioural and academic problems.
  - (54.9%) **Electrical Grid Technician:** Control, monitor, or operate equipment that regulates or distributes electricity, using data obtained from instruments or computers. Coordinate with engineers, planners, field personnel, or other utility workers to provide information such as clearances, switching orders, or distribution process changes. Respond to emergencies, such as transformer or transmission line failures, and route current around affected areas. Implement energy schedules, including real-time transmission reservations or schedules.
  - (54.8%) **Pet Groomer:** Perform animal grooming duties such as washing, brushing, clipping and trimming coats, cutting nails and cleaning ears. Soothe and comfort anxious animals. Answer telephones and schedule appointments. Do facility laundry and clean, organize, maintain and disinfect animal quarters and grooming tools.
  - (54.3%) **University Social Science Teacher (other than Psychology):** Teach university students in social science other than psychology. Prepare instructional materials and adapt teaching methods to meet students' varying needs and interests. Establish clear objectives for all lessons, units and projects, and communicate these objectives to students.
  - (54.3%) **Secondary School Vocational Teacher:** Conduct on-the-job training, classes, or training sessions to teach and demonstrate principles, techniques, procedures, or methods of designated subjects. Present lectures and conduct discussions to increase students' knowledge and competence, using visual aids, such as graphs, charts, videos and slides. Observe and evaluate students' work to determine progress, provide feedback and make suggestions for improvement. Administer oral, written or performance tests to measure progress and to evaluate effectiveness of training.
  - (54.2%) **Secretary - (Software Skills Focus):** This is a general secretarial position requiring specific software skills. Complete administrative responsibilities and projects as assigned. Complete communications as assigned.
  - (53.9%) **Computer Support Specialist:** Provide technical assistance to computer users. Answer user inquiries regarding computer software or hardware operation to resolve problems. Read technical manuals, confer with users or conduct computer diagnostics to investigate and resolve problems, or to provide technical assistance and support. Install and perform minor repairs to hardware, software or peripheral equipment following design or installation specifications. Prepare evaluations of software or hardware, and recommend improvements or upgrades.
  - (53.8%) **Veterinarian Inspector:** Inspect animals for presence of disease, in facilities such as laboratories, livestock sites, livestock slaughter or meat-processing facilities. Examine animal and carcass before and after slaughtering, to detect evidence of disease or other abnormal conditions. Inspect processing areas where livestock and poultry are slaughtered and processed, to ensure compliance with governmental standards. Institute and enforce quarantine or other regulations governing import, export and interstate movement of livestock.
  - (53.6%) **Beauty Treatment Specialist:** Examine client's skin, using magnifying lamps or visors when necessary, to evaluate skin condition and appearance. Demonstrate how to clean and care for skin properly and recommend skin-care regimens. Treat the facial skin to maintain and improve its appearance, using specialized techniques and products, such as peels and masks. Keep records of client needs and preferences and the services provided.
  - (53.5%) **Nail Technician:** Advise clients on nail care and use of products and colours. Shape and smooth ends of nails, using scissors, files or emery boards, and apply undercoat and clear or colored polish onto nails with brush. Clean and sanitize tools and work

### Careers which have a low enjoyment percentage and suitability

- environment. Assess the condition of client's hands, remove dead skin from the hands, and massage them. Schedule client appointments and accept payments.
- (53.4%) **Secondary School Teacher (General):** Instruct students, using various teaching methods, such as lecture and demonstration, as well as assign lessons and correct homework. Prepare course outlines and objectives according to curriculum guidelines or state and local requirements, develop and administer tests. Evaluate, record and report student progress. Confer with students, parents and school counsellors to resolve behavioural and academic problems.
- (53.4%) **Jeweller:** Create jewellery from materials such as gold, silver, platinum and precious or semiprecious stones. Make repairs, such as enlarging or reducing ring sizes, and replacing broken clasps and mountings. Clean and polish metal items and jewellery pieces. Select and acquire metals and gems for designs.
- (53.2%) **Surveyor:** Plan ground surveys designed to establish base lines, elevations and other geodetic measurements to get exact measurements and determine property boundaries. Draft maps of survey data and estimates cost of survey. Analyse survey objectives and specifications, and determine appropriate and economical methods and procedures for establishing survey control. Compute geodetic measurements and interpret survey data to determine position, shape and elevations of geomorphic and topographic features.
- (53.1%) **Face-to-Face Customer Service Specialist (Some Selling):** Interact with customers in a face-to-face situation. Some selling is required. A high level of efficiency is NOT required. Create friendly and positive customer interactions.
- (53.1%) **Criminologist:** Study social behaviours and how and why people deviate from the norms of those behaviours. Develop profiles of specific types of crimes and criminals through the scientific analysis of crime statistics. Work collaboratively with law-enforcement officials to prevent crimes or to quickly apprehend suspects after a crime occurs. Attend autopsies or crime scenes and use data to create a profile about a potential suspect.
- (53.0%) **Elementary School Teacher:** Lecture, demonstrate and use audiovisual aids to present academic, social and motor skill subject matter to class. Prepare course objectives and outline for course of study, following curriculum guidelines or requirements of state and school. Teach rules of conduct and maintain discipline and suitable learning environment in classroom and on playground. Evaluate student performance and discuss pupil academic and behavioural attitudes and achievements with parents, and counsel pupils when adjustment and academic problems arise.
- (53.0%) **Security Guard:** Monitor and authorize entrance and departure of employees, visitors and other persons, to guard against theft and maintain security of premises. Circulate among visitors, patrons or employees to preserve order and protect property. Write reports of daily activities and irregularities such as equipment or property damage, theft, presence of unauthorized persons or unusual occurrences. Patrol industrial or commercial premises to prevent and detect signs of intrusion and ensure security of doors, windows, and gates.
- (52.9%) **University Teacher- Education Related Subject:** Teach university students in education related subject. Prepare instructional materials and adapt teaching methods to meet students' varying needs and interests. Establish clear objectives for all lessons, units and projects, and communicate these objectives to students.
- (52.7%) **Environmental Compliance Inspector:** Inspect and investigate sources of pollution to protect the public and environment and to ensure compliance with regulations. Investigate complaints and suspected violations. Determine the nature of code violations and actions to be taken. Inform individuals and groups of pollution control regulations and inspection findings, and explain how problems can be corrected.
- (52.7%) **Hearing Officer, Judicial Reviewer:** Conduct hearings to recommend or make decisions on claims concerning government programs or other government-related matters. Determine liability, sanctions, or penalties, or recommend the acceptance or rejection of claims or settlements. Prepare written opinions and decisions. Monitor and direct the activities of trials and hearings to ensure that they are conducted fairly.
- (52.5%) **Call Centre Specialist (Friendliness Focus):** Respond to the needs of customers in a call centre. Create a friendly and positive customer interactions. Selling is NOT required.
- (52.5%) **Opto-Electrical Engineer:** Analysis and Development. Product planning and design. Product testing and verification. Resolve product problems. Integrate entire product manufacturing process.
- (52.5%) **Public Transportation Inspector:** Monitor operation of public transportation systems to ensure good service and compliance with regulations. Observe employees performing assigned duties to note their department, treatment of passengers, and adherence to company regulations and schedules. Investigate accidents, equipment failures, and complaints. Determine need for changes in service, such as additional vehicles, route changes, and revised schedules to improve service and efficiency.
- (52.0%) **IC Layout Engineer:** Responsible for IC (Integrated Circuit ) testing development and application (IC testing/Application). Automized overall arrangement and wiring of IC layout, design and technical guidance, structural related work. Numerical and artificial circuit layout, design, and verification. Weld simple IC application circuits, develop simple application programs, aid R&D personnel to do IC verification testing. Responsible for all customized layout design and verification.
- (51.9%) **Software Analyst/Designer:** Consult with staff and users to identify software requirements. Formulate designs to meet those requirements. Interact with the technical manager to ensure the design is understood and implemented.
- (51.8%) **Architect:** Plan and design structures, such as private residences, office buildings, theatres or factories. Consult with clients; prepare scale drawings, plan layout of project and execute design, structure specifications, materials, colour, equipment, estimated costs or construction time. Prepare contract documents for building contractors and administer construction contracts. Direct activities of workers engaged in preparing drawings and specification documents. Conduct periodic on-site observation of work during construction to monitor compliance with plans.

### Careers which have a low enjoyment percentage and suitability

- (51.8%) **Postal - Service Clerk:** Collect payment for postage stamps, postal cards, stamped envelopes, metered postage and money orders. Weigh and compute mailing costs of letters and parcels based on type, weight and destination. Sort mail according to groups and destination by hand or by operating electronic mail-sorting or scanning device. Receive, registers and refer for investigation complaints regarding mail theft, delivery, lost mail or damaged mail.
- (51.8%) **Engineer - LCD Process:** Develop and design of manufacturing process new technology, production and management of LCD materials and component products. Plan, guide and maintain product manufacturing efficiency turnaround, and map out standardized work flow. Statistically analyse manufacturing data; control manufacturing rate of progress; follow up and track results. Hold new-product trial productions, present trial production report, as well as a provide analysis and statistics on the data for trial productions and quantity production. Improve manufacturing quality, defective product ratio, and lessen raw material consumption.
- (51.7%) **Coach - Sports:** Provide training direction, encouragement, motivation and nutritional advice to prepare athletes for games, competitive events or tours. Plan, organize and conduct practice sessions. Travel with athletes to games and matches. Explain and enforce safety rules and regulations. Evaluate athletes' skills and review performance records to determine their fitness and potential in a particular area of athletics.
- (51.6%) **Private Investigator:** Search computer databases, credit reports, public records, tax or legal filings or other resources to locate persons or to compile information for investigations. Obtain and analyse information on suspects, crimes or disturbances to solve cases, to identify criminal activity or to gather information for court cases. Conduct background investigations of individuals, such as pre-employment checks, to obtain information about an individual's character, financial status or personal history. Write reports or case summaries to document investigations.
- (51.5%) **Engineer - Agricultural:** Apply knowledge of engineering technology and biological science to agricultural problems. Prepare reports, sketches, working drawings, specifications, proposals and budgets for proposed sites or systems. Provide advice on water quality and issues related to pollution management, river control, soil degradation and rehabilitation. Design agricultural machinery components and equipment using computer-aided design (CAD) technology.
- (51.2%) **Intelligence Specialist:** Gather, analyse, or evaluate information from a variety of sources, such as law enforcement databases, surveillance, intelligence networks. Use intelligence data to anticipate and prevent organized crime activities and terrorism. Design, use, or maintain databases and software applications, such as geographic information systems (GIS) mapping and artificial intelligence tools. Establish criminal profiles to aid in connecting criminal organizations with their members.
- (51.2%) **Kindergarten Teacher:** Teach elemental science, personal hygiene and humanities to children to promote physical, mental and social development. Supervise student activities, such as field visits, to stimulate student interest and broaden understanding of physical and social environment. Organize and conduct games and group projects to develop cooperative behaviour and assist children in forming satisfying relationships. Discuss student problems and progress with parents.
- (51.2%) **Receptionist:** Receive or greet visitors, patients or clients. Answer telephone calls. This role involves minimal administrative responsibilities.
- (51.1%) **Preschool Teacher:** Instruct children in activities designed to promote social, physical and intellectual growth in facility, such as preschool or day care centre. Plan individual and group activities for children, such as learning to listen to instructions, playing with others and using play equipment. Structure play activities and monitor activities to prevent accidents and promote social skills. Confer with parents to explain preschool program and to discuss ways they can develop their child's interest.
- (51.0%) **Face-to-Face Customer Service Specialist (Efficiency Focus):** Interact with customers in a face-to-face situation. Selling is NOT required. A high level of efficiency is required. Create friendly and positive customer interactions.
- (50.8%) **Sculptor:** Carve objects from stone, concrete, plaster, wood or other material, using abrasives and tools, such as chisels, gouges, and mall. Construct artistic forms from metal or stone, using metalworking, welding or masonry tools and equipment. Cut, bend, laminate, arrange and fasten individual or mixed raw and manufactured materials and products to form works of art.
- (50.7%) **Network Programming Designer:** Set up, manage and maintain company's networking system and data. Website structure, flow control, network safety planning and troubleshooting. Design, develop new network programs. Amend existing network system programs, and develop new system integration.
- (50.6%) **Salesperson for Children's Educational Products or Services:** Sell to the public any of a wide variety of educational products or services to parents. Compute sales price of merchandise and prepare sales slip or sales contract. Greet customer and explain the product or service. Discuss the customer's needs and try to influence the customer to purchase.
- (50.5%) **Interior Designer:** Plan, design, and furnish interiors of residential, commercial or industrial buildings. Confer with client to determine factors affecting planning interior environments. Coordinate with other professionals, such as contractors, architects, engineers and plumbers, to ensure job success. Estimate material requirements and costs, and present design to client for approval.
- (50.4%) **Occupational Health & Safety Specialist:** Analyse safety issues and enforce safety regulations. Interact with management and employees regarding safety issues.
- (50.3%) **Computer Game Designer:** Design core features of computer video games. Specify innovative game and role-play mechanics, story lines and character biographies. Create and maintain design documentation. Guide and collaborate with production staff to produce games as designed.
- (50.1%) **Usher, Lobby Attendant:** Assist patrons at entertainment events, such as sporting events, motion pictures or theatre performances, and collect admission tickets and passes from patrons. Assist patrons to find seats, search for lost articles and locate facilities, such as restrooms and telephones. Examine ticket or pass to verify authenticity, using criteria such as colour and



### Careers which have a low enjoyment percentage and suitability

- date issued, verify credentials of patrons desiring entrance into press-box and permit only authorized persons to enter.
- (50.0%) **Architectural Drafter:** Prepare detailed drawings of architectural designs and plans for buildings and structures, according to specifications provided by architect. Operate computer-aided drafting (CAD) equipment or conventional drafting station to produce designs, working drawings, charts, forms and records. Analyse building codes, by-laws, space and site requirements to determine their effect on architectural designs. Draw rough and detailed scale plans for foundations.
- (50.0%) **Civil Drafter:** Prepare drawings and topographical and relief maps used in civil engineering projects, such as highways, bridges, pipelines, flood control projects and water and sewerage control systems. Correlate, interpret and modify data obtained from topographical surveys, well logs and geophysical prospecting reports. Determine the order of work and method of presentation, such as orthographic or isometric drawing. Produce drawings using computer-assisted drafting systems (CAD) or drafting machines or by hand, using compasses, dividers, protractors, triangles and other drafting devices.
- (49.9%) **Sports Agent:** Full-time management of a group of athletes. Collect fees, commissions or other payments, according to contract terms. Confer with athletes to develop strategies for their careers, and to explain actions taken on their behalf. Develop contacts with individuals and organizations, and apply effective strategies and techniques to ensure athletes' success. Negotiate with managers, promoters, union officials and other persons, regarding athletes' contractual rights and obligations.
- (49.7%) **Recreational Therapist:** Plan, organize and participate in treatment programs and activities to facilitate the physical, mental or emotional rehabilitation or health of patients. Observe and confer with patient to assess patient's needs, capabilities and interests and to devise treatment plan; develops treatment plan to meet these needs and evaluate the effectiveness of the treatment plan. Prepare and submit reports and charts to treatment team, to reflect patients' reactions and evidence of progress or regression.
- (49.7%) **Speech-Language Pathologist:** Administer hearing or speech-language evaluations, tests, or examinations to patients to collect information on type and degree of impairment. Conduct or direct research and report findings on speech or hearing topics to develop procedures, technology or treatments. Counsel and instruct clients in techniques to improve speech or hearing impairment, including sign language or lip-reading. Plan and conduct prevention and treatment programs for clients' hearing or speech problems.
- (49.7%) **Recreation Worker:** Organize, lead, and promote interest in facility activities, such as arts, crafts, sports, games, camping, and hobbies. Conduct recreational activities and instruct participants to develop skills in provided activities, as well as schedule facilities and maintain record of programs. Meet and collaborate with agency personnel, community organizations, and other professional personnel to plan balanced recreational programs for participants. Enforce rules and regulations of facility, maintain discipline and ensure safety. Supervise and coordinate work activities of personnel, train staff and assign duties.
- (49.6%) **Engineer - Marine:** Design, develop, and oversee the installation of ship machinery and related equipment. Inspect marine equipment and machinery to draw up work requests and job specifications. Conduct analytical, environmental, operational or performance studies to develop designs for products, such as marine engines, equipment and structures. Design and oversee testing, installation and repair of marine apparatus and equipment.
- (49.5%) **Construction and Building Inspector:** Inspect structures using engineering skills to determine structural soundness and compliance with specifications, building codes and other regulations. Approve and sign plans that meet required specifications. Issue violation notices and stop-work orders, confer with owners, violators and authorities to explain regulations and recommend rectifications. Maintain daily logs and supplement inspection records with photographs.
- (49.4%) **Cashier:** Receive payment by cash, check, credit cards, vouchers or automatic debits. Issue receipts, refunds, credits or change due to customers. Assist customers by providing information and resolving their complaints. Process merchandise returns and exchanges.
- (49.3%) **Engineer - Aerospace:** Design, fabricate, modify or test aircraft or aerospace products. Formulate conceptual design of aeronautical or aerospace products or systems. Plan or conduct experimental, environmental, operational, or stress tests on models or prototypes. Review performance reports and documentation from customers and field engineers, and inspect malfunctioning products.
- (49.2%) **Computer Equipment Engineer:** Research, design, develop or test computer or computer-related equipment. Build, test and modify product prototypes, using working models or theoretical models constructed with computer simulation. Test and verify hardware and support peripherals to ensure that they meet specifications. Provide technical support to designers, marketing and sales departments, suppliers, engineers.
- (49.1%) **Zoologist:** Study origin, interrelationships, classification, life histories and diseases, development, genetics and distribution of animals. Study animals in their natural habitats, and assess effects of environment on animals, and analyse characteristics of animals to identify and classify animals. Collect and dissect animal specimens, and examine specimens under microscope for species identification and study of species development or animal disease. Conduct experimental studies, using chemicals and various types of scientific equipment.
- (49.0%) **Mechanical Engineering Technician:** Apply theory and principles of mechanical engineering to modify, develop, test or calibrate machinery and equipment. Devise, fabricate and assemble new or modified mechanical components for products. Set up and conduct tests of complete units and components under operational conditions. Work under direction of engineering staff or physical scientists.
- (49.0%) **Teacher for Sense Impaired:** Teach academic subjects, daily living skills and vocational skills to sense-impaired students, adapting teaching techniques to meet individual needs of students. Plan curriculum and prepare lessons and other materials, considering such factors as individual needs, learning levels and physical limitations of students. Confer with parents, administrators, testing specialists, social workers and others to develop individual educational program. Devise special teaching

### Careers which have a low enjoyment percentage and suitability

- tools, techniques and equipment.
- (48.9%) **Electronic Products Systems Engineer:** Research of electronic products hardware systems. Evaluate and design product. Design schematic circuit and verify module function. Develop and improve electronic products manufacturing process. Handle abnormalities and get rid of problems.
  - (48.4%) **Probation, Correctional Specialist:** Provide social services to assist in rehabilitation of law offenders in custody or on probation. Counsel offender and refer offender to social resources of community for assistance. Formulate rehabilitation plan for each assigned offender or inmate. Interview offender or inmate to determine social adaptability, individual problems, needs, interests and attitudes. Consult with attorneys, judges and institution personnel to evaluate inmate's social progress.
  - (48.3%) **Bailiff:** Maintain order in courts of law. Screen persons entering courthouse TP collect and retain unauthorized firearms and other contraband. Provide security by patrolling interior and exterior of courthouse and escorting judges and other court employees. Escort prisoners to and from courthouse and maintain custody of prisoners during court proceedings.
  - (48.1%) **Civil Engineering Associate:** Prepare drawings and plans, estimate costs and check engineering work in support of drafting professionals in a variety of civil engineering and associated disciplines. Interpret work assignment instructions, apply appropriate procedures and select equipment. Perform and direct fieldwork and laboratory testing. Analyse data and carry out computations.
  - (48.1%) **Commercial, Industrial Designer:** Develop and design manufactured products, such as cars, home appliances and children's toys. Combine artistic talent with research on product use, marketing, and materials to create the most functional and appealing product design. Prepare sketches of ideas, detailed drawings, illustrations, artwork or blueprints, using drafting instruments, paints and brushes or computer-aided design (CAD) equipment. Confer with engineering, marketing, production, sales departments or with customers, to establish and evaluate design concepts for manufactured products.
  - (48.0%) **Pressure Vessel Inspector:** Inspect pressure vessel equipment for conformance with safety laws and standards regulating their design, fabrication, installation, repair and operation. Inspect drawings, design and specifications for piping, boilers and other vessels. Perform standard tests to verify condition of equipment and calibration of meters and gauges, using test equipment and hand tools. Examine permits and inspection records to determine that inspection schedule and remedial actions conform to procedures and regulations. Confer with engineers, manufacturers, contractors, owners and operators concerning problems in construction, operation and repair.
  - (48.0%) **Salesperson for Pets or Animals:** Greet customer and discuss the customer's needs. Sell animals. Computes sales price and prepare sales slip or sales contract.
  - (47.9%) **Administrative Assistant:** Perform secretarial work that may include some errand running. Organize information as requested. Create positive interactions with others.
  - (47.8%) **Call Centre Specialist (Efficiency Focus):** Respond to the needs of customers in a call centre. Efficiently and accurately provide the information or service needed. Selling is not required.
  - (47.7%) **Materials and Equipment Acquisition Specialist:** Work as part of a team that does the following: Manages materials, supplies and finished-product supply. Review of market supply and demand trend, control of the safety stock. Oversee quality management and build good relations. Draw up and implement strategies to reduce operating costs.
  - (47.5%) **Power Supply Engineer:** Responsible for product design. Responsible for specification development. Stipulate testing specification. Product Testing. Resolve problems.
  - (47.4%) **Training Specialist:** Identify the aims of the training to ensure the training fulfils the purpose. Organize and conduct training. Obtain feedback and improve the training delivery and/or content.
  - (47.3%) **Instructor - Adult Education:** Teach or instruct out-of-school youths and adults in a variety of education classes. Establish clear objectives for all lessons, units and projects, and communicate those objectives to students. Conduct classes, workshops and demonstrations to teach principles, techniques or methods in various subjects. Assign and grade class work and homework.
  - (47.3%) **Accounts Receivable Specialist:** Track and report all monies owed to the company. Accurately determine the amounts.
  - (47.3%) **Billing Specialist:** Accurately generate invoices. Maintain accurate records of invoices sent.
  - (47.3%) **Market Research Analyst:** Research market conditions or gather information to help companies or agencies determine their position and direction in the marketplace. Devise and evaluate methods and procedures for collecting data, or arrange for data to be collected. Prepare reports of findings, illustrating data graphically and translating complex findings into written text. Monitor industry statistics and follow trends in trade literature.
  - (47.2%) **Engineer - Industrial:** Plan and establish sequence of operations to fabricate and assemble parts or products and to promote efficient utilization. Review production schedules and related information to obtain knowledge of manufacturing methods. Recommend methods for improving utilization of personnel, material and utilities. Estimate production costs, cost saving methods and the effects of product design changes on expenditures.
  - (47.2%) **Fundraiser:** Raise funds or otherwise solicit and gather monetary donations or other gifts for an organization. Attend community events, meetings or conferences to promote organizational goals, or solicit donations or sponsorships. Contact corporate representatives, government officials or community leaders to increase awareness of organizational causes. Create or update donor databases.
  - (47.1%) **Engineer - Mechanical:** Plan and design tools, engines, machines and other mechanically functioning equipment. Oversee installation, operation, maintenance and repair of mechanically functioning equipment. Investigate equipment failures and difficulties to diagnose faulty operation and recommend design modification. Specify components and products to ensure conformance with engineering design and performance specifications.

### Careers which have a low enjoyment percentage and suitability

- (47.1%) **Word-processor - Typist:** Accurately and efficiently type documents into a computer, including light editorial work.
- (47.1%) **Musical Instrument Repairer and Tuner:** Assembling components of musical instruments manually. Test pitch, processing noise, and adjust the sound, tone, strings. Maintenance and repair of musical instrument. Replace damaged instrument components. Wax and spray paint on instruments.
- (47.1%) **Gem and Diamond Worker:** Fabricate, finish or evaluate the quality of gems and diamonds used in jewellery or industrial tools. Examine gems during processing to ensure accuracy of angles and positions of cuts or bores. Assign polish, symmetry and clarity grades to stones, according to established grading systems. Estimate wholesale and retail value of gems, following pricing guides, market fluctuations and other relevant economic factors.
- (47.0%) **Riding Instructor:** Instruct students individually and in groups, using various teaching methods such as lectures, discussions and demonstrations. Establish clear objectives for all lessons, units and projects, and communicate those objectives to students. Adapt teaching methods and instructional materials to meet students' varying needs and interests. Monitor students' performance to make suggestions for improvement and to ensure that they satisfy course standards, training requirements, and objectives.
- (46.9%) **Teachers Aide:** Distribute teaching materials to students, such as textbooks, workbooks, or paper and pencil. Maintain order within school and school grounds, including taking class attendance and maintaining attendance records. Grade homework and tests, compute and record results, using answer sheets or electronic marking devices. Requisition teaching materials and stockroom supplies.
- (46.8%) **Engineer - Quality Control:** Design, develop, test and evaluate integrated systems for managing industrial production processes, including human work factors, quality control, inventory control, logistics and material flow, cost analysis and production coordination. Communicate with management and user personnel to develop production and design standards. Draft and design layout of equipment, materials and workspace to illustrate maximum efficiency using drafting tools and computer. Plan and establish sequence of operations to fabricate and assemble parts or products and to promote efficient utilization. Analyse statistical data and product specifications to determine standards and establish quality and reliability objectives of finished product.
- (46.8%) **Salesperson for Chemicals:** Sell chemical products or services, such as acids, industrial chemicals, agricultural chemicals and water treatment supplies. Distribute samples to customer and take orders. Discuss characteristics and clinical studies pertaining to products.
- (46.7%) **Acupuncturist - Traditional Chinese Medicine Practitioner:** Analyse physical findings and medical histories to make diagnoses according to Oriental medicine traditions. Treat patients using tools such as needles, cups, herb diet, exercise and lifestyle adjustments. Develop individual treatment plans and strategies. Evaluate treatment outcomes and recommend new or altered treatments as necessary to promote health.
- (46.6%) **Call Centre Customer Service (Some Selling):** Respond to the needs of customers in a call centre. Sell additional products or services. Create friendly and positive customer interactions.
- (46.4%) **Scout-Sports:** Plan, organize, and conduct practice sessions. Arrange and conduct sports-related activities, such as training camps, skill-improvement courses, clinics and pre-season try-outs. Evaluate athletes' skills and review performance records to determine their fitness and potential in a particular area of athletics. File scouting reports that detail player assessments, provide recommendations on athlete recruitment and identify locations and individuals to be targeted for future recruitment efforts. Monitor the academic eligibility of student athletes. Negotiate with professional athletes or their representatives to obtain services and arrange contracts.
- (46.2%) **Medical Device Designer:** Plan, design and develop medical device components. Develop product designs and prototype from concepts and/or specifications. Support documentation and prototype fabrication of designed products. Contribute inventions, new designs or techniques.
- (46.1%) **Cash Accounting Clerk:** Receive cash or checks or complete credit-card transaction. Issue change and cash checks. Compare totals on cash register with amount of currency in register to verify balances. Operate computer software, such as software for calculations, bookkeeping and check writing.
- (46.1%) **Network Engineer:** Modify existing software to correct errors, to adapt it to new hardware or to upgrade interfaces and improve performance. Analyse information to determine, recommend and plan installation of a new system or modification of an existing system. Store, retrieve and manipulate data for analysis of system capabilities and requirements. Consult with customers or other departments on project status, proposals or technical issues, such as software system design or maintenance.
- (46.1%) **Orientation & Mobility Therapist:** Train blind and visually-impaired clients in the techniques of daily living to maximize independence and personal adjustment. Teach clients personal skills (e.g. eating, grooming, dressing and use of bathroom facilities); home management skills (e.g. cooking, coin & money identification); communication skills (e.g. use of telephone). Teach clients to read and write Braille. Administer assessment tests to clients to determine present and required or desired orientation and mobility skills.
- (46.0%) **Flight Engineer:** Monitor gauges, warning devices, control panels, engine operation, fuel consumption and functioning during flight. Pilot and navigate the flight of fixed-wing, multi-engine aircraft, using instrumentation to guide flights when visibility is poor. Work as part of a flight team with other crew members, especially during takeoffs and landings. Check passenger and cargo distributions and fuel amounts to ensure that weight and balance specifications are met.
- (45.9%) **Electronics Engineering Associate:** Assist electronics engineers in the design and layout of electronics installations and circuitry. Collect information, perform calculations and prepare diagrams and drawings of electronic installations and circuitry using computers. Check that designs and finished products follow specifications, regulations and contract details. Calculate

### Careers which have a low enjoyment percentage and suitability

- costs.
- (45.9%) **Tailor:** Develop design for garment, adapt existing design for garment or copy existing design for garment. Assemble garment parts and joins parts with basting stitches, using needle and thread or sewing machine. Alter garment and joins parts, using needle and thread or sewing machine, to form finished garment. Measure customer for size, use tape measure and record measurements, draw individual pattern or alter existing pattern to fit customer's measurements. Confer with customer to determine type of material and garment style desired.
  - (45.3%) **Forensic Crime Investigation Technician:** Collect, identify, classify, and analyse physical evidence related to criminal investigations. Perform tests on weapons or substances, such as fibre, hair, and tissue to determine significance to investigation. Reconstruct crime scenes to determine relationships among pieces of evidence. Keep records and prepare reports detailing findings, investigative methods, and laboratory techniques.
  - (45.2%) **Secondary School Physical Education Teacher:** Instruct students, using various teaching methods, such as lecture and demonstration, as well as assign lessons and correct homework. Prepare course outlines and objectives according to curriculum guidelines or state and local requirements, develop and administer tests. Evaluate, record and report student progress. Confer with students, parents and school counsellors to resolve behavioural and academic problems.
  - (44.8%) **Workplace Bargaining-Industrial Relations Specialist:** Interact with the union and management to reach a consensus on various workplace and human resource issues.
  - (44.7%) **IC Simulation Design Engineer:** Design research, software development and test. Develop models of future hardware to verify the designs are sound, to act as a reference model for hardware to match, and to provide the software teams with an early development platform. Design, simulation, verification, physical design, bench testing, and support of IC test.
  - (44.3%) **Mechanical Drafter:** Develop detailed design drawings and specifications for mechanical equipment using computer-aided design (CAD) equipment. Lay out and draw schematic, orthographic or angle views of components or mechanical systems. Modify and revise designs to correct operating deficiencies or to reduce production problems. Coordinate with and consult other workers to design, lay out, or detail components.
  - (44.3%) **Website Designer:** Write, analyse, review and rewrite programs, using workflow chart and diagram, and applying knowledge of computer capabilities, subject matter and symbolic logic. Conduct trial runs of programs and software applications to be sure they will produce the desired information, and that the instructions are correct. Write, update, and maintain computer programs or software packages to handle specific jobs, such as tracking inventory, storing or retrieving data or controlling other equipment.
  - (44.3%) **Engineer - Semiconductor Equipment:** Map out manufacturing process and equipment; estimate work time; create a standard production operation work flow. Present problems in the technical manufacturing operating process, conduct abnormality analysis, handle equipment maintenance and overhaul work flow. Improve manufacturing process execution plans; regularly implement preventative maintenance plans. Design plans, improve manufacturing process equipment, production capacity and working performance. Research and develop mechanical equipment automation. Draft standardized equipment operations guidance and instruction manuals.
  - (44.1%) **Personal Assistant:** Perform secretarial work and errands as needed to assist a more senior employee. Be pleasant and responsive. Does NOT supervise or manage others.
  - (44.1%) **Firmware Engineer:** Develop, create, and modify general computer applications software or specialized utility programs. Analyse user needs and develop software solutions. Design software or customize software for client use with the aim of optimizing operational efficiency. Confer with systems analysts, engineers, programmers and others to design system and to obtain information on project limitations and capabilities, performance requirements and interfaces.
  - (44.0%) **CAD/CAM Engineer:** Responsible for designing new products using computer-aided design software applications, such as AutoCAD, Pro/ENGINEER, and Solid Works. Handle complex aspects of the design process, and may oversee a team of drafters. In the manufacturing process; creates prototypes of the products they've helped to develop and make design improvements based on prototype testing. Work closely with industrial engineers and packaging engineers to develop, market and implement their product.
  - (44.0%) **Museum Research Worker:** Plan, organize and conduct research to document or support exhibits in museums and museum publications. Collect, record, analyse and evaluate facts. Prepare reports of completed projects for publication. Monitor construction of exhibits to ensure authenticity of proportion, colour and costumes.
  - (43.9%) **Coastguard Officer:** Patrol the coast in vessels especially equipped to apprehend law-breakers such as pirates, contraband dealers, people smugglers, terrorism operators, as part of a country's defence force. Instruct crew in vessel operation and maintenance. Pursue and apprehend suspected law-breakers; keep them in safe custody until they can be handed over to land-based law enforcement authorities. Document detail of observations and experiences and testify in civil or military Court proceedings if necessary.
  - (43.7%) **Life Sciences Teacher - University:** Prepare and deliver lectures to undergraduate or graduate students on topics such as molecular biology, marine biology, and botany (life sciences). Prepare materials for laboratory activities and course materials such as syllabi, homework assignments and handouts. Evaluate and grade students' class work, laboratory work, assignments and papers. Supervise students' laboratory work.
  - (43.5%) **Assembler - Electronics:** Assemble, position, align, and fit electronic parts. Study engineering drawings and blueprints to determine materials requirements and task sequences. Position, align, fit and weld parts to form complete units or subunits, following blueprints and layout specifications, and using jigs, welding torches and hand tools. Lay out and examine metal stock or work pieces to be processed to ensure that specifications are met.



### Careers which have a low enjoyment percentage and suitability

- (43.3%) **Sports Commentator:** Study background information in order to prepare for programs or interviews. Interview show guests about their lives, their work or topics of current interest. Prepare and deliver news, sports and/or weather reports, gathering and rewriting material, so that it will convey required information and fit specific time slots. Provide commentary and conduct interviews during sporting events, parades, conventions and other events.
- (43.1%) **Salesperson for Computers (Retail):** Sell computers in a retail setting. Recommend equipment to meet customer requirements, considering salable features, such as flexibility, cost, capacity and economy of operation. In some cases, provide minimal training in the use of the equipment.
- (42.9%) **University Agricultural Science Teacher:** Teach university students in Agricultural Science. Prepare instructional materials and adapt teaching methods to meet students' varying needs and interests. Establish clear objectives for all lessons, units and projects, and communicate these objectives to students.
- (42.8%) **Merchandise Displayer:** Plan and erect commercial displays, such as those in windows and interiors of retail stores and at trade exhibitions. Place prices or descriptive signs on backdrops, fixtures, merchandise or floor. Develop ideas or plans for merchandise displays or window decorations. Construct or assemble displays or display components from fabric, glass, paper or plastic.
- (42.7%) **Archivist:** Appraise, edit and direct safekeeping of permanent records and historically valuable documents. Organize archival records and develop classification systems to facilitate access to archival materials. Provide reference services and assistance for users needing archival materials. Prepare archival records, such as document descriptions, to allow easy access to information. Interact with others who will use the archives.
- (42.6%) **Tax Preparer:** Review financial records, such as income statements and documentation of expenditures, to determine forms needed to prepare return. Compute taxes owed, using adding machine or personal computer, and complete entries on forms, following tax form instructions and tax tables. Interview client to obtain additional information on taxable income and deductible expenses and allowances. Verify totals on forms prepared by others to detect errors in arithmetic or procedure, as needed.
- (42.5%) **Instructor - Physical Fitness:** Instruct or coach groups or individuals in exercise activities. Demonstrate techniques and form, observe participants and explain corrective measures where necessary. Plan routines to exercise each set of muscles, depending on participants' capabilities and limitations. Monitor participants' progress and adapt programs as needed.
- (42.4%) **Quality Assurance Technician:** Study operations sequence, material flow, functional statements, organization charts, and project information to determine worker functions and responsibilities. Develop manufacturing methods, labour utilization standards, and cost analysis systems to promote efficient staff and facility utilization. Coordinate and implement quality control objectives, activities, or procedures to resolve production problems, maximize product reliability or minimize costs. Analyse statistical data and product specifications to determine standards and establish quality and reliability objectives of finished product.
- (42.4%) **Programmer - General (Minimal People Interaction):** Correct errors by making appropriate changes and rechecking the program to ensure that the desired results are produced. Conduct trial runs of programs and software applications to be sure they will produce the desired information and that the instructions are correct. Convert software design into computer code. This role involves minimal interaction with others.
- (42.3%) **Laser Technician:** Construct and test prototype gas or solid-state laser devices, applying theory and principles of laser engineering and electronic circuits. Install and align optical parts in laser body, fill laser body with gases such as helium, neon or carbon dioxide, to test laser beam. Assemble completed laser body in chassis, and install and align electronic components. Sets up precision electronic and optical instruments to test laser device, using specified electrical or optical inputs.
- (42.3%) **Exercise Physiologist:** Assess, plan or implement fitness programs that include exercise or physical activities. Conduct stress tests, using electrocardiograph (EKG) machines. Demonstrate correct use of exercise equipment or performance of exercise routines. Explain exercise program or physiological testing procedures to participants, monitor and encourage achievement.
- (42.2%) **Optician, Dispensing & Measuring:** Design, measure, fit and adapt lenses and frames for customer, according to written optical prescription or specification. Interact with customer to select frames, measure customer for size of eyeglasses, and coordinate frames with facial and eye measurements and optical prescription. Prepare instructions for work order for optical laboratory to grind and mount lenses in frames.
- (42.2%) **Storage and Distribution Technician:** Organize and coordinate the storage and distribution operations within an organization, or the activities of organizations that are engaged in storing and distributing materials and products. Coordinate warehouse activities, such as production, sales, records control and purchasing, to estimate peak delivery periods and issue work assignments. Engage in receiving, storing, testing and shipping products or materials. Interact with customers or shippers to solicit new business; answer questions about services offered or required.
- (42.1%) **Disc Jockey:** Announce program of musical selections. Select recording to be played based on program specialty, displaying knowledge of audience taste or listening to audience requests. Comment on music and other matters of interest to audience. Interview musical personalities and members of listening audience who phone in musical requests.
- (41.9%) **Psychiatrist:** Diagnose mental, emotional and behavioural disorders and prescribe medication, or administer psychotherapeutic treatments to treat disorders. Analyse and evaluate patient data and test or examination findings to diagnose nature and extent of mental disorder, as well as gather and maintain patient information and records. Prescribe, direct and administer psychotherapeutic treatments or medications to treat mental, emotional or behavioural disorders. Teach, conduct research, and publish findings to increase understanding of mental, emotional, behavioural states and disorders.
- (41.7%) **Surgical Orderly:** Provide technical assistance to surgeons, surgical nurses or anaesthesiologists. Hand instruments and

### Careers which have a low enjoyment percentage and suitability

- supplies to surgeons and surgeons' assistants, hold retractors and cut sutures, and perform other tasks as directed by surgeon during operation. Prepare dressings or bandages, and apply or assist with their application following surgery. Wash and sterilize equipment using germicides and sterilizers, and maintain a proper sterile field during surgical procedures.
- (41.6%) **BIOS Software Engineer:** Responsible for BIOS code development, authoring BIOS specifications, creating chipset reference code extensions, formulating unit test strategies and implementing/executing unit test cases, resolving BIOS-related defects and providing platform level BIOS-related debug/defect triage support. Work directly with key customers and understand the platform feature requirements and develop innovative/differentiated BIOS solutions.
- (41.2%) **Electrical Engineering Technician:** Assemble electrical and electronic systems and prototypes according to engineering data and knowledge of electrical principles, using hand tools and measuring instruments. Install and maintain electrical control systems and solid state equipment. Collaborate with electrical engineers and other personnel to identify, define and solve developmental problems. Build, calibrate, maintain, troubleshoot and repair electrical instruments or testing equipment.
- (41.2%) **Fine Artist:** Confer with clients, editors, writers, art directors and other interested parties regarding the nature and content of artwork to be produced. Submit preliminary or finished artwork or project plans to clients for approval, incorporating changes as necessary. Integrate and develop visual elements, such as line, space, mass, colour and perspective, in order to produce desired effects such as the illustration of ideas, emotions or moods. Create sculptures, statues and other three-dimensional artwork by using abrasives and tools to shape, carve, and fabricate materials such as clay, stone, wood or metal.
- (41.0%) **Computer Numerical Control Programmer:** Analyse job orders, drawings, blueprints, specifications, printed circuit board pattern films and design data, in order to calculate dimensions, tool selection, machine speeds and feed rates. Determine the sequence of machine operations and select the proper cutting tools needed to machine work pieces into the desired shapes. Observe machines on trial runs or conduct computer simulations to ensure that programs and machinery will function properly and produce items that meet specifications. Write CNC programs in the language of a machine's controller and store programs on media such as punch tapes, magnetic tapes or disks.
- (41.0%) **Electrical Engineering Associate:** Assist electrical engineers in the design and layout of electrical installations and circuitry. Collect information, perform calculations and prepare diagrams and drawings of electrical installations and circuitry using computers. Check that designs and finished products follow specifications, regulations and contract details. Calculate costs.
- (41.0%) **Hand or Machine Engraver:** Examine sketches or photographs to decide how designs are to be etched, cut or engraved onto work pieces. Engrave or etch onto flat or curved surfaces using hand tools or hand-held power tools. Examine engraved surfaces for rough edges, burrs or defects and make good. Polish and clean engraved surfaces.
- (40.9%) **Postal - Mail Clerk:** Check mail in order to ensure correct postage and that packages and letters are in proper condition for mailing. Answer questions regarding mail regulations and procedures, postage rates and post office boxes. Complete forms regarding changes of address, or theft or loss of mail or for special services such as registered or priority mail. Put undelivered parcels away, retrieve them when customers come to claim them and complete any related documentation. Register, certify and insure letters and parcels.
- (40.9%) **Engineer - Production Line Programming:** Develop operation instructions in writing. Conduct productivity analysis, production control. Perform production cost analysis. Manage raw material, process, and product quality control.
- (40.8%) **Hairdresser or Hairstylist:** Provide beauty services, such as shampooing, cutting, colouring and styling hair based on customers' instructions, hair type and facial features. Keep work stations clean and sanitize tools such as scissors and combs. Schedule client appointments. Develop new styles and techniques.
- (40.8%) **Credit Authorizer:** Authorize credit charges against customers' accounts. Keep records of customers' charges and payments. Evaluate customers' computerized credit records and payment histories to decide whether to approve new credit, based on predetermined standards. File sales slips in customers' ledgers for billing purposes.
- (40.3%) **Salesperson for Artistic Product or Service:** Sell to the public any of a wide variety of artistic merchandise and service. Compute sales price of merchandise and prepare sales slip or sales contract. Greet customer, demonstrate use or operation of merchandise, and recommend, select and obtain merchandise based on customer needs and desires. Inventory and requisition stock.
- (40.3%) **Library Research Worker:** Research, compile, analyse and retrieve information on specified subjects in response to inquiries from library patrons. Prepare summary of research and analysis and transmit information to inquirers. Provide assistance to librarians in the maintenance of collections of books, periodicals, magazines, newspapers and audiovisual and other materials. Compile records, sort, shelve, issue, and receive library materials.
- (40.0%) **Customer Complaints Officer:** Investigate and resolve customers' inquiries concerning merchandise, service, billing or credit rating. Examine claims forms and other records to determine worthiness of claim and responsibility for error. Analyse information gathered by investigation, and report findings to customers and suppliers.
- (40.0%) **Corrective Therapist:** Provide medically-prescribed program of physical exercises and activities designed to prevent muscular deterioration, resulting from long convalescence or inactivity. Establish rapport with patients to motivate them, choosing exercises and activities in accordance with prescription. Prepare progress reports of patient's emotional reactions to and progress in training. Direct patients in techniques of personal hygiene to compensate for permanent disabilities.
- (40.0%) **Salesperson for Engineering Services:** Call on management representatives at commercial, industrial, and other establishments to convince prospective client to buy products or services offered. Demonstrate and explain product or service to customer representatives, such as engineers, architects and other professionals, and draw up sales or service contract upon successful sales. Design and draft variations of standard products in order to meet customer needs. Provide technical training to

### Careers which have a low enjoyment percentage and suitability

employees of client.

### Careers which have a very low enjoyment percentage and suitability

- (39.8%) **Credit Analyst:** Analyse credit data and financial statements to determine the degree of risk involved in extending credit or lending money. Generate financial ratios, using computer programs, to evaluate customers' financial status. Consult with customers to resolve complaints and verify financial and credit transactions. Prepare reports that include the degree of risk involved in extending credit or lending money.
- (39.8%) **Geneticist:** Research and study the inheritance of traits at the molecular, organism or population level. Evaluate genetic data by performing appropriate mathematical or statistical calculations and analyses. Maintain laboratory notebooks that record research methods, procedures and results. Search scientific literature to select and modify methods and procedures most appropriate for genetic research goals.
- (39.7%) **Police Officer:** Patrol assigned area to enforce laws and ordinances, regulate traffic, control crowds, prevent crime, and arrest violators. Maintain order, respond to emergencies, protect people and property, and enforce motor vehicle and criminal law. Monitor traffic to ensure motorists observe traffic regulations and exhibit safe driving procedures as well as direct traffic flow and reroute traffic in case of emergencies. Evaluate and relay complaint and emergency-request information to determine response requirements and relay to appropriate agency dispatcher.
- (39.5%) **Tax Specialist:** Maintain accurate accounting records that comply with various tax requirements.
- (39.4%) **Lens Coating Technician:** Cut, grind, and polish eyeglasses, contact lenses or other precision optical elements. Assemble and mount lenses into frames, or process other optical elements. Set up machines to polish, bevel, edge or grind lenses, flats, blanks or other precision optical elements. Inspect, weigh and measure mounted or unmounted lenses after completion to verify alignment and conformance to specifications, using precision instruments.
- (39.3%) **Salesperson for Information Services:** Sell or advise clients on information-related products and services. Contact prospective customers to present information and explain available services. Advise clients on advantages and disadvantages of various products, and help select company that offers type of information requested by client.
- (39.3%) **Semiconductor Process Engineer:** Conduct maintenance, improve product manufacturing process, improve quality and increase the production rate and efficiency. Responsible for product development, development of new materials, components and products manufacturing technology. Perform research and development for possible technology transfer, and find the effective replacement costs. Assist factory to fulfil task, and implement the project engineering experiment, conduct analysis and solve the problems related to the factory process.
- (39.2%) **Media Presenter:** Prepare and deliver media presentations such as news, sports, or weather reports. In some cases may select program content, or gather and rewriting material in conjunction with producers and assistants. Study background information to prepare for programs and interviews and conduct interviews. Respond to callers or viewers over the telephone. Make promotional appearances at public or private events. May act as MC and host special events.
- (39.2%) **Paralegal & Legal Assistant:** Assist lawyers by researching legal precedent, investigating facts or preparing legal documents. Conduct research to support a legal proceeding, to formulate a defence or to initiate legal action. Investigate facts and law of cases to determine causes of action and to prepare cases. Appraise and inventory real and personal property for estate planning and arbitrate disputes between parties, and assist in real estate closing process. Call upon witnesses to testify at hearing, and answer questions regarding legal issues pertaining to civil service hearings.
- (39.1%) **Purchasing Specialist:** Purchase products or services on behalf of the company. Take initiative to find the value for the company. Negotiate on behalf of the company.
- (39.0%) **Piping Drafter:** Provide technical drawings detailing the layout of piping in a facility using computer-assisted drafting computer aided design programs. Prepare and maintain mechanical and electrical drawings, layouts, piping system design and routing. Ensure compliance with government standards and safety codes as well as client specifications and budget.
- (39.0%) **Home Furnishings Estimator:** Measure windows for draperies and shades, furniture for upholstery and window and door frames for doors, windows and screens. Compute cost of fabric and hardware, work specifications and type of fabric to be used. Itemize labour in fabrication and installation of goods, and record total price on sales check or contract. Confer with architects and interior decorators to obtain additional information when computing cost estimates on commercial orders.
- (38.9%) **Accountant/Bookkeeper - All Functions:** Maintain financial records for the company including accounts payable, accounts receivable, payroll and tax records. Accurately determine the amounts. Accurately maintain records.
- (38.6%) **Merchandise Appraiser:** Appraise and estimate value of items, such as paintings, antiques, jewellery, cameras, musical instruments, machinery. May sell merchandise at auction. Test art works and antiques, using x-rays and chemicals, to detect forgery or to otherwise authenticate item. Prepare and submit reports of estimates to clients, such as insurance firms, lending agencies, government offices, creditors.
- (38.5%) **Collections Specialist:** Collect overdue money owed to the company. Get past excuses and procrastination in order to obtain payment. Confront the customer in a professional manner to get them to pay.
- (38.5%) **Auctioneer:** Sell articles at auction to highest bidder. Appraise merchandise before sale and assemble merchandise in lots according to estimated value of individual pieces or type of article. Describe merchandise and give information about article, such as history and ownership, in order to encourage bidding. Continue to ask for bids, attempting to stimulate buying desire of bidders. Close sale to highest bidder.
- (38.4%) **Auditor:** Audit the financial records to determine their accuracy. Accurately determine the correctness of the accounts.

### Careers which have a very low enjoyment percentage and suitability

- (38.4%) **Payroll Specialist:** Administer the payroll according to management requirements. Accurately maintain payroll records.
- (38.4%) **Salesperson for Electronics (Retail):** Sell electronic products such as mobile phones or tablets (other than computers). Recommend equipment to meet customer requirements, considering salable features, such as flexibility, cost, capacity and economy of operation. In some cases, provide minimal training in the use of the equipment.
- (38.3%) **Pathologist:** Research and study nature, cause, effects and development of diseases and determine presence and extent of disease in body tissue, fluids, secretions and other specimens. Conduct research to gain knowledge of nature, cause and development of diseases, and resulting structural and functional body changes. Examine, collect tissue or fluid samples, and conduct tests on patients to provide information on patient's disease. Perform autopsies to determine nature and extent of disease, cause of death and effects of treatment. Advise other medical practitioners on nature, cause and development of disease.
- (38.2%) **Cargo and Freight Agent:** Expedite and route movement of incoming and outgoing cargo and freight shipments in airline, train, trucking terminals and shipping docks. Direct or participate in cargo loading to ensure completeness of load and even distribution of weight. Advise clients on transportation and payment methods, and negotiate and arrange transport of goods with shipping or freight companies. Check import/export documentation to determine cargo contents, and classify goods into different fee or tariff groups, using a tariff coding system.
- (38.0%) **Physical Therapist:** Apply techniques and treatments that help relieve pain, increase the patient's strength and decrease or prevent deformity and crippling. Administer manual exercises to improve and maintain function. Administer treatment involving application of physical agents using equipment, moist packs, ultraviolet and infrared lamps and ultrasound machine. Test and measure patient's strength, motor development, sensory perception, functional capacity and respiratory and circulatory efficiency, and records data. Instruct, motivate and assist patient to perform various physical activities and to use supportive devices such as crutches, canes and prostheses. Evaluate effects of treatment at various stages and adjust treatments to achieve maximum benefit.
- (37.8%) **Bank Teller:** Receive checks and cash for deposit, verify amount and examine checks for endorsements. Cash checks and pay out money, after verification of signatures and customer balances. Count currency, coins and checks received for deposit, shipment to branch banks or Federal Reserve Bank, by hand or currency-counting machine. Enter customers' transactions into computer to record transactions and issue computer-generated receipts. Balance currency, coin and checks in cash drawer at end of shift and calculate daily transactions.
- (37.6%) **Directory Assistance Operator:** Provide information by accessing alphabetical, geographical, or other directories. Assist customers with special billing requests, such as charges to a third party and credits or refunds for incorrectly dialled numbers or bad connections. May handle emergency calls and assist children or people with physical disabilities to make telephone calls. Suggest and check alternate spellings, locations, and/or listing formats to customers lacking details or complete information.
- (37.4%) **Biophysicist:** Research or study basic principles of plant and animal life, such as origin, relationship, development, anatomy and functions. Collect and analyse biological data. Program and use computers to store, process and analyse data. Prepare technical and research reports, such as environmental impact reports.
- (37.3%) **Electronic Equipment Installer:** Install, diagnose, or repair communications, sound, security or navigation equipment in motor vehicles. Install equipment and accessories such as stereos, navigation equipment, communication equipment and security systems. Cut openings and drill holes for fixtures and equipment, using electric drills and routers. Diagnose or repair problems with electronic equipment, such as sound, navigation, communication and security equipment, in motor vehicles.
- (37.0%) **Medical Scientist:** Conduct research dealing with the understanding of human diseases and the improvement of human health. Evaluate effects of drugs, gases, pesticides, parasites and microorganisms at various levels. Standardize drug dosages, methods of immunization, and procedures for manufacture of drugs. Investigate cause, progress, life cycle or mode of transmission of diseases or parasites.
- (36.9%) **Salesperson (Sources Customers and Actively Persuades):** Find new customers through calling, networking or other means. Initiating contact with prospects and try to establish their interest in the product. Persuade the customer to purchase.
- (36.7%) **Immigration and Customs Inspector:** Examine immigration applications, visas, and passports and interview persons to determine eligibility for admission, residence, and travel in the country of operation. Detain persons found to be in violation of customs or immigration laws and arrange for legal action, such as deportation. Locate and seize contraband, undeclared merchandise, and vehicles, aircraft, or boats that contain such merchandise. Interpret and explain laws and regulations to travellers, prospective immigrants, shippers, and manufacturers.
- (36.7%) **Demonstrator, Promoter:** Demonstrate or explain products, methods or services to persuade customers to purchase products or use services. Set up and arrange displays or demonstration areas to attract the attention of prospective customers. Transport, assemble and disassemble materials. Keep areas neat while working and return items to correct locations following demonstrations. Record and report demonstration-related information, such as the number of questions asked by the audience or the number of coupons distributed.
- (36.7%) **Salesperson for Computers (Corporate Customers):** Sell to companies a wide variety of computer-related merchandise. Compute sales price of merchandise and prepare sales contract. Select and obtain merchandise based on customer needs and desires.
- (36.7%) **Painter - Transportation Equipment:** Operate or tend painting machines to paint surfaces of transportation equipment, such as automobiles, buses, trucks, boats and airplanes. Paint designs, letterings or identifying information on vehicles. Select paint according to company requirements and matches colours of paint following specified colour charts. Operate lifting and moving



### Careers which have a very low enjoyment percentage and suitability

- devices to move equipment or materials to access areas to be painted.
- (36.6%) **Air Conditioning and Refrigeration Mechanic:** Draft air conditioning engineering drawings. Responsible for air conditioner engineering planning. Responsible for air conditioning, frozen equipment repair and maintenance.
  - (36.6%) **Physiologist:** Research or study cellular structure and functions, or organ system functions of plants and animals. Utilize microscope, X-ray equipment, spectroscope and other equipment to study cell structure and function, and to perform experiments. Study functions of plants and animals, such as growth, respiration, movement and reproduction, under normal and abnormal conditions. Prepare technical reports and recommendations based on research outcomes.
  - (36.5%) **Salesperson for Advertising:** Sell or solicit advertising, such as graphic art, advertising space in publications, custom-made signs, and air time on TV and radio. Visit advertisers and advise in advantages of various types of programming and methods of composing layouts and designs for signs and displays. Draw up contract covering arrangements for designing, fabricating, erecting and maintaining sign or display. Prepare promotional plans, sales literature and sales contracts, using computer. Plan and sketch layouts to meet customer needs, and write copy as part of layout.
  - (36.5%) **Surgical Technologist:** Prepare and place equipment and supplies in operating room and arrange instruments, according to instruction. Maintain supply of fluids, such as plasma, saline, blood and glucose, for use during operation. Hand instruments and supplies to surgeon, hold retractors and cut sutures and perform other tasks as directed by surgeon during operation. Put dressings on patient following surgery.
  - (36.2%) **Programmer - General (Some People Interaction):** Correct errors by making appropriate changes and rechecking the program to ensure that the desired results are produced. Conduct trial runs of programs and software applications to be sure they will produce the desired information and that the instructions are correct. Convert software design into computer code. This role involves some interaction with others.
  - (36.1%) **Video Game Developer:** Write, analyse, review and rewrite programs, using workflow chart and diagram, and applying knowledge of computer capabilities, subject matter and symbolic logic. Consult with managerial, engineering and technical personnel to clarify program intent, identify problems and suggest changes. Prepare detailed workflow charts and diagrams that describe input, output and logical operation, and convert them into a series of instructions coded in a computer language.
  - (36.1%) **Webmaster:** Confer with management or development teams to prioritize needs, resolve conflicts, develop content criteria or choose solutions. Design, build or maintain websites, using authoring or scripting languages, content creation tools, management tools and digital media. Provide clear, detailed descriptions of website specifications, such as product features, activities, software, communication protocols, programming languages and operating systems software and hardware. Design and implement website security measures such as firewalls or message encryption.
  - (36.0%) **Landscaping Specialist:** Implement landscaping according to the landscape plan. Maintain operating procedures, work standards and schedules. Inspect completed work to ensure conformance to the landscaping plan.
  - (35.9%) **Appraiser - Real Estate:** Appraise property to determine its value for purchase, sales, investment, mortgage or loan purposes. Prepare written reports that estimate property values, outline methods by which the estimations were made. Search public records for transactions, such as sales, leases, and assessments, and verify legal title. Inspect and photograph properties to evaluate construction, condition and special features.
  - (35.9%) **Web Software Engineer:** Communicate with network personnel or website hosting agencies to address hardware or software issues affecting websites. Design, build or maintain websites, using authoring or scripting languages, content creation tools, management tools and digital media. Write, design or edit web page content, or direct others producing content. Analyse user needs to determine technical requirements.
  - (35.7%) **Library Technician:** Help patrons find and use library resources. Answer routine telephone or in-person reference inquiries. Process print and non-print library materials to prepare them for inclusion in library collections. Reserve, circulate, renew and discharge books and other materials.
  - (35.6%) **Purchasing, Contract Agent:** Negotiate or renegotiate and administer contracts with suppliers, vendors and other representatives. Locate and arrange for purchase of goods and services necessary for efficient operation of organization. Formulate policies and procedures for bid proposals and procurement of goods and services. Analyse price proposals, financial reports and other data and information to determine reasonable prices. Prepare purchase orders or bid proposals, and reviews requisitions for goods and services.
  - (35.5%) **Pharmacology Research Scientist:** Plan, design, execute and summarize assigned clinical pharmacology department clinical studies. Work closely with clinical operations staff and other study team members on studies to promote proper, safe, and efficient conduct and reporting of assigned studies according to the timelines established. Responsible for the development of long range plans and budgets for assigned studies, and develop new methodologies to explore clinical pharmacology aspects of select compounds. Involved in the preparation of regulatory documents.
  - (35.3%) **Toxicologist:** Research effects of toxic substances on physiological functions of humans, animals and plants, for consumer protection and industrial safety programs. Design and conduct studies to determine physiological effects of various substances on laboratory animals, plants and human tissue. Interpret results of studies in terms of toxicological properties of substances and hazards associated with their misuse. Write and maintain records and reports of studies and tests, for use as toxicological resource material. Advise governmental and industrial personnel on degree of hazard of toxic materials and on precautionary labelling.
  - (34.8%) **Procurement Engineer:** Coordinate the development and use of engineering specifications and requirements to facilitate the procurement of parts, tools, equipment or other products or materials. Develop and establish specifications and performance test

### Careers which have a very low enjoyment percentage and suitability

- requirements for equipment to be purchased. Analyse technical data, designs, preliminary specifications and availability of parts and equipment. Calculate and record tool requirements and maintain records of procurement, status and disposition information.
- (34.8%) **Silk Screen Processor:** Apply lettering, designs or colouring to products, using silk screen process. Select and prepare colour glaze or ink, apply to screen or pattern over drawing or plate, and print design. Read job order and examine drawing or design to determine method of making stencil; then, cut stencil by hand, using cutting tools, or photograph design on film. Catalogue and store screens for future orders.
- (34.7%) **Microbiologist:** Investigate the relationship between organisms and disease. Prepare technical reports and recommendations, based upon research outcomes. Provide laboratory services for health departments and for physicians needing information for diagnosis and treatment. Supervise biological technologists and technicians.
- (34.6%) **Programmer - General (Substantial People Interaction):** Correct errors by making appropriate changes and rechecking the program to ensure that the desired results are produced. Conduct trial runs of programs and software applications to be sure they will produce the desired information and that the instructions are correct. Convert software design into computer code. This role involves substantial interaction with others.
- (34.5%) **Pottery Maker:** Raise and shape clay into ware, such as vases, saggars and pitchers on revolving potter's wheel using hands, fingers and thumbs. Smooth surfaces of finished piece using rubber scrapers and wet sponge. Operate the potter's wheel and pull wire through base of article and wheel to separate finished piece. Verify size and form using callipers and templates.
- (34.4%) **Accounts Payable Specialist:** Track and report all monies owed by the company. Accurately determine the amounts.
- (34.3%) **Budget Analyst:** Examine budget estimates for completeness, accuracy and conformance with procedures and regulations. Analyse budgeting and accounting reports and submit recommendations for approval or disapproval of funds requests. Analyse monthly department budgeting and accounting reports to maintain expenditure controls. Provide advice and technical assistance with cost analysis, fiscal allocation and budget preparation. Perform cost-benefit analyses.
- (34.1%) **Health Officer & Inspector:** Ensure that working environments are safe and secure for the workers, environment, property and general public. Test air quality, inspect machinery or equipment and help businesses design safe working spaces. Visit companies, businesses, schools, events, fairs and other places where health can be an issue e.g. food preparation businesses. Approve or withhold approval for the business to operate, issue orders to fix problems and shut down businesses in extreme cases.
- (34.0%) **Claims Taker - Unemployment Benefits:** Determine eligibility of persons applying to receive assistance from government programs and agency resources for unemployment benefits, by interviewing claimants. Initiate procedures to grant, modify, deny, or terminate assistance or refer applicants to other agencies for assistance. Compile, record, and evaluate personal and financial data in order to verify completeness and accuracy and to determine eligibility status. Check with employers or other references to verify answers and obtain further information.
- (34.0%) **Weld Technician:** Position, align, fit and weld parts to form complete units or subunits, following blueprints and layout specifications, and using jigs, welding torches and hand tools. Lay out and examine metal stock or work pieces to be processed, to ensure that specifications are met. Set up and operate fabricating machines, such as brakes, rolls, shears, flame cutters, grinders and drill presses, to bend, cut, form, punch, drill or otherwise form and assemble metal components. Align and fit parts according to specifications, using jacks, turnbuckles, wedges, drift pins, pry bars and hammers.
- (34.0%) **Geological Sample Technician:** Test or analyse geological samples, crude oil or minerals to detect presence of petroleum, gas or mineral deposits. Collect or prepare solid or fluid samples for analysis. Assemble, operate and maintain field and laboratory testing equipment. Compile and record testing and operational data for review and further analysis.
- (33.9%) **Printing Press Operator:** Operate or tend various types of printing machines such as offset lithographic presses, letter or letterset presses, photo graphic or gravure presses to produce print on paper or other materials such as plastic, cloth or rubber. Turn, push or move controls to set and adjust speed, temperature, ink flow and position and pressure tolerances of press. Select and install printing plates, rollers, screens, stencils, type, die and cylinders in machine according to specifications using hand tools. Monitor feeding, printing and racking processes of press to maintain specified operating levels and detect malfunctions.
- (33.8%) **Medical Equipment Control Staff:** Prepare, sterilize, install or clean laboratory or health-care equipment. Examine equipment to detect leaks, worn or loose parts or other indications of disrepair. Start equipment and observe gauges and equipment operation to detect malfunctions and to ensure equipment is operating to prescribed standards. Maintain records of inventory or equipment usage, and order medical instruments or supplies when inventory is low.
- (33.7%) **Train Engineer:** Drive electric, diesel-electric, steam, or gas-turbine-electric locomotives to transport passengers or freight. Interpret train orders, electronic or manual signals and railroad rules and regulations. Monitor gauges or meters to understand machine performance. Observe tracks to detect obstructions and respond to emergency conditions or breakdowns.
- (33.7%) **Electroplating / Surface Treatment Technician:** Operate and maintain plating, milling machinery and equipment and handle unusual problems during processing. Operate PCB electroplating line. Design electroplating plating rack. Manufacture electroplating line and operate the machine. Adjust the chemical ingredients. Conduct surface treatment after electrogilding.
- (33.7%) **Aircraft Maintenance Technician:** Diagnose, adjust, repair or overhaul aircraft engines and assemblies, such as hydraulic and pneumatic systems. Read and interpret maintenance manuals, service bulletins and other specifications to determine the feasibility and method of repairing or replacing malfunctioning or damaged components. Replace or repair worn, defective or damaged components, using hand tools, gauges and testing equipment. Maintain, repair and rebuild aircraft structures, functional components and parts such as wings and fuselage, rigging, hydraulic units, oxygen systems, fuel systems, electrical systems, gaskets and seals. Examine and inspect aircraft components, including landing gear, hydraulic systems and deicers to

### Careers which have a very low enjoyment percentage and suitability

- locate cracks, breaks, leaks or other problems.
- (33.5%) **Air Cargo Ground Crew:** Load, unload, secure and stage aircraft cargo or baggage. Distribute cargo in such a manner that space use is maximized. Calculate load weights for different aircraft compartments, using charts and computers.
- (33.4%) **Truck Driver:** Drive truck to transport and deliver cargo, materials or damaged vehicle. Maintain radio or telephone contact with base or supervisor to receive instructions or be dispatched to new location. Keep record of materials and products transported. Position blocks and ties rope around items to secure cargo for transport. Operate equipment on vehicle to load, unload or disperse cargo or materials.
- (33.2%) **Oral Pathologist:** Research and study nature, cause, effects and development of diseases associated with mouth. Examine oral tissue specimens of patients to determine pathological conditions such as tumours and lesions. Examine patient's mouth, jaw, face and associated areas to obtain oral tissue specimen. Discuss diagnosis with patient and referring practitioner.
- (33.1%) **Loan Officer:** Evaluate, authorize or recommend approval of commercial, real estate or credit loans. Analyse applicants' financial status, credit and property evaluations to determine feasibility of granting loans. Advise borrowers on financial status and payment methods. Approve loans within specified limits.
- (33.0%) **Pheresis Technician:** Collect blood components and provide therapeutic treatment such as replacement of plasma or removal of white blood cells or platelets, using blood-cell separator equipment. Puncture vein of donor/patient with needle to connect donor or patient to tubing of equipment in preparation for procedure. Connect and install tubing, fluid containers and other components to set up equipment. Compile and evaluate donor/patient information such as blood pressure and weight, to ensure that screening criteria are met. Talk to and observe patient for distress or side effects, such as nausea or fainting during procedures. Record information such as flow rate, anticoagulant rate, temperature and blood pressure following blood collection or treatment.
- (33.0%) **Salesperson (Provides Information with Minimal Persuasion):** Greet customers. Respond to customer questions. Some selling is required. A high level of efficiency is NOT required. Create friendly and positive customer interactions.
- (33.0%) **Private Housekeeper:** Perform any combination of cleaning, vacuuming and dusting duties to maintain private households. Supervise and attend to children of the household. Replenish supplies to maintain cupboards and pantries fully stocked, by placing orders with providers or by undertaking shopping. Manage laundry and linen replacement. Remove trash and dispose of rubbish.
- (32.9%) **Glass Blower, Molder:** Shape molten glass according to patterns. Heat glass to pliable stage, using gas flames or ovens. Blow tubing into specified shapes to prevent glass from collapsing, using compressed air or own breath. Shape, bend or join sections of glass, using paddles, pressing and flattening hand tools.
- (32.9%) **Computer Numerical Control Board Operator:** Set up and operate computer-controlled machines or robots to perform one or more machine functions on metal or plastic work pieces. Adjust machine feed and speed, change cutting tools, or adjust machine controls when automatic programming is faulty or if machines malfunction. Monitor machine operation and control panel displays and compare readings to specifications to detect malfunctions. Mount, install, align and secure tools, attachments, fixtures and work pieces on machines, using hand tools and precision measuring instruments.
- (32.7%) **Train Maintenance Mechanic:** Perform scheduled maintenance, and clean units and components. Inspect the interior and exterior of trains coming into rail yards in order to identify defects and to determine the extent of wear and damage. Repair or replace defective or worn parts such as bearings, pistons and gears, using hand tools, torque wrenches, power tools and welding equipment. Test units for operability before and after repairs.
- (32.7%) **University Computer Science Teacher:** Teach courses in computer science by preparing and delivering lectures to undergraduate or graduate students. Evaluate and grade students' class work, laboratory work, assignments and papers. Prepare course materials, such as syllabi, homework assignments and handouts. Keep abreast of developments in the field by reading current literature, talking with colleagues and participating in professional conferences.
- (32.2%) **Engineer - Process Manufacturing:** Apply continuous improvement methods such as lean manufacturing to enhance manufacturing quality, reliability or cost-effectiveness. Communicate manufacturing capabilities, production schedules or other information to facilitate production processes. Design testing methods and test finished products or process capabilities to establish standards or validate process requirements. Identify opportunities or implement changes to improve products or reduce costs using knowledge of fabrication processes, tooling and production equipment, assembly methods, quality control standards or product design, materials and parts.
- (32.2%) **Furniture Finisher:** Shape, finish and refinish damaged, worn or used furniture, or new high-grade furniture, to specified colour or finish. Mix finish ingredients to obtain desired colours or shades. Brush, spray, or hand-rub finishing ingredients onto and into wood grain; then apply lacquer or other sealers. Smooth, shape, and touch-up surfaces treated surfaces.
- (32.2%) **Corrections Officer:** Guard inmates in penal or rehabilitative institutions. Guard prisoners in transit between jail, courtroom, prison, or other point. Monitor conduct of prisoners in housing unit, or during work or recreational activities to prevent escape or violence. Search prisoners and vehicles and conduct shakedowns of cells for valuables and contraband, such as weapons or drugs.
- (32.2%) **Loan and Credit Clerk:** Interview loan applicants to elicit information; investigate applicants' backgrounds and verify references. Prepare loan request papers and forward to appraisal department. Contact customers concerning acceptance or rejection of applications. Maintain databases and case histories.
- (32.1%) **Political Scientist:** Conduct research into political philosophy and theories of political systems such as governmental institutions, public laws and international law. Analyse and interpret results of studies, and prepare reports detailing findings,

### Careers which have a very low enjoyment percentage and suitability

- recommendations or conclusions. Consult with government officials, civic bodies, research agencies and political parties. Organize and conduct public opinion surveys and interpret results.
- (32.1%) **Power Plant Boiler Operator:** Control power generating equipment, including boilers, turbines, generators, or reactors, using control boards or semi-automatic equipment. Control or maintain auxiliary equipment, such as pumps, fans, compressors, condensers, feedwater heaters, filters, or chlorinators, to supply water, fuel, lubricants, air, or auxiliary power. Monitor power plant equipment and indicators to detect evidence of operating problems. Communicate with systems operators to regulate and coordinate line voltages and transmission loads and frequencies.
- (32.1%) **Electronic Equipment Repairer:** Repair all types of electric or gas household appliances, such as refrigerators, washers, dryers and ovens. Install appliances such as refrigerators, washing machines and stoves. Replace worn and defective parts such as switches, bearings, transmissions, belts, gears, circuit boards, or defective wiring. Disassemble appliances so that problems can be diagnosed and repairs can be made.
- (32.1%) **Surgeon:** Operate on patient to correct deformities, repair injuries, prevent diseases or improve or restore patient's functions. Analyse patient's medical history, medication allergies, physical condition, and examination results to verify operation's necessity and to determine best procedure. Conduct research to develop and test surgical techniques to improve operating procedures and outcomes. Direct and coordinate activities of nurses, assistants, specialists and other medical staff.
- (32.0%) **Salary, Compensation & Benefits Specialist:** Research and analyse information regarding salary packages. Interact with management in order to reach salary decisions.
- (31.9%) **Secretary - General Administrative Support (Minimal People Interaction):** This general secretarial position requires minimal interaction with people and a high level of efficiency and accuracy.
- (31.7%) **Legislative Assistant:** Conduct research into subject of proposed legislation. Communicate with lobbyists, members of the press and constituents to gather and provide information for legislator. Assist legislator in the preparation of proposed legislation including developing the preliminary draft of bill. Analyse pending legislation and recommend action be taken.
- (31.5%) **Biologist:** Research or study basic principles of plant and animal life, such as origin, relationship, development, anatomy and functions. Collect and analyse biological data. Program and use computers to store, process and analyse data. Prepare technical and research reports such as environmental impact reports.
- (31.4%) **Salesperson for Pharmaceutical Products:** Sell pharmaceutical product to doctors or hospitals.
- (31.3%) **Croupier:** Stand or sit behind table and operate games of chance at a gaming establishment or casino. Deal cards, move and collect chips and operate games according to game and house rules. Pay winnings or collect losing bets. Open and close cash floats and game tables.
- (31.3%) **Public Health Educator:** Plan, organize and direct health education programs for group and community needs. Conduct community surveys to ascertain health needs, develop desirable health goals and determine availability of professional health services. Develop and maintain cooperation between public, civic, professional and voluntary agencies.
- (31.3%) **Surgeon - Oral:** Operate on patient to correct deformities, repair injuries, prevent diseases, or improve or restore patient's functions as related to the teeth. Analyse patient's medical history, medication allergies, physical condition, and examination results to verify operation's necessity and to determine best procedure. Conduct research to develop and test surgical techniques to improve operating procedures and outcomes. Direct and coordinate activities of assistants, specialists and other staff.
- (31.2%) **Radiation-Protection Specialist:** Inspect and test X-ray or other radiation-producing equipment and utilization areas, and evaluate operating procedures to detect and control radiation hazards in hospitals, laboratories, medical offices and other establishments that use equipment that produce radiation harmful to humans. Review plans and specifications for proposed X-ray installations for conformance to legal requirements and radiation safety practices. Confer with physicians, dentists and X-ray personnel to explain procedures and legal requirements pertaining to use of equipment.
- (31.2%) **Biology Researcher:** Collect and analyse biological data about relationships among and between organisms and their environment. Study basic principles of plant and animal life, such as origin, relationship, development, anatomy and function. Prepare technical and research reports, such as environmental impact reports, and communicate the results to individuals in industry, government or the general public. Plan and administer biological research programs for government, research firms, medical industries or manufacturing firms.
- (31.1%) **Database Specialist:** Administer, test and implement computer databases, applying knowledge of database management systems. Modify existing databases and database management systems, or direct programmers and analysts to make changes. Plan, coordinate and implement security measures to safeguard information in computer files against accidental or unauthorized damage, modification or disclosure. Develop standards and guidelines to guide the use and acquisition of software and to protect vulnerable information.
- (31.0%) **Law Clerk:** Assist judges and lawyers by conducting research or preparing legal documents. Attend court sessions to hear oral arguments or record necessary case information. Draft or proofread judicial opinions, decisions or citations. Research laws, court decisions, documents, opinions, briefs or other information related to cases before the court.
- (30.7%) **Locksmith and Safe Repairer:** Cut new or duplicate keys, using key cutting machines, impressions or code key machines. Disassemble mechanical or electrical locking devices, and repair. Keep records of company locks and keys. Set up and maintain master key systems. Install door hardware, such as locks and closers.
- (30.5%) **Orthotist:** Fabricate and fit orthopaedic braces or prostheses to assist patients with disabling conditions of limbs and spine, or with partial or total absence of limb. Assist physician in formulating specifications and prescriptions for orthopaedic and/or prosthetic devices. Design orthopaedic and prosthetic devices according to physician's prescription. Instruct patients on use of



### Careers which have a very low enjoyment percentage and suitability

- orthopaedic or prosthetic devices. Repair and maintain orthopaedic devices using hand tools.
- (30.4%) **Dialysis Technician:** Set up and operate haemodialysis machine to provide dialysis treatment for patients with kidney failure. Explain dialysis procedure and operation of haemodialysis machine to patient before treatment to allay anxieties. Mix dialysate, according to formula. Transport patient to dialysis room and position patient on lounge chair at haemodialysis machine. Calculate fluid removal or replacement to be achieved during dialysis procedure. Monitor patient for adverse reaction, and haemodialysis machine for malfunction.
- (30.2%) **Government Property Inspector:** Investigate or inspect government property to ensure compliance with contract agreements and government regulations. Prepare correspondence, reports of inspections or investigations or recommendations for action. Recommend legal or administrative action to protect government property. Testify in court or at administrative proceedings concerning investigation findings.
- (30.0%) **Stock Clerk (no inventory taking):** Stock shelves, racks, cases, bins and tables with merchandise. Ensure pricing labels are correct. Requisition merchandise from supplier, based on available space, merchandise on hand, customer demand or advertised specials.
- (30.0%) **Pharmacy Assistant:** Record drugs delivered to the pharmacy, store incoming merchandise and inform the supervisor of stock needs. Greet customers and help them locate merchandise, answer telephone inquiries, referring callers to pharmacist when necessary. Maintain and clean equipment, work areas or shelves and restock storage areas, replenishing items on shelves. Perform clerical tasks, such as filing, compiling and maintaining prescription records, or composing.
- (29.9%) **Firefighter:** Control and extinguish fires, protect life and property and conduct rescue efforts. Respond to fire alarms and other calls for assistance, assess fires and report conditions. Drive and operate fire fighting vehicles and equipment. Search burning buildings to locate and rescue fire victims and administer first aid.
- (29.8%) **Marine Cargo Inspector:** Inspect the handling, storage, and stowing of freight and cargoes, prepare and submit reports after completion of freight shipments. Advise crews in techniques of stowing dangerous and heavy cargo. Recommend remedial procedures to correct any violations found during inspections. Direct crews to reload freight or to insert additional bracing or packing as necessary.
- (29.8%) **Dental Hygienist:** Clean calcareous deposits, accretions and stains from teeth and beneath margins of gums, using dental instruments. Examine gums, using probes, to locate periodontal recessed gums and signs of gum disease. Provide health education to improve and maintain the oral health of patients. Record and review patient medical histories.
- (29.8%) **Respiratory Therapist:** Set up and operate devices, such as mechanical ventilators, therapeutic gas administration apparatus, environmental control systems and aerosol generators, following specified parameters of treatment. Read prescription, measure arterial blood gases and review patient information to assess patient condition, and monitors patient's physiological responses to therapy. Inspect and test respiratory therapy equipment to ensure equipment is functioning safely and efficiently. Maintain patient's chart that contains pertinent identification and therapy information.
- (29.5%) **Medical Researcher - Growth and Aging:** Study the chemistry of living processes, such as cell development, breathing and digestion and living energy changes such as growth, aging and death. Research the chemical effects of substances such as drugs, serums, hormones, and food on tissues and vital processes. Prepare reports and recommendations based on research outcomes. Share research findings by writing scientific articles and by making presentations at scientific conferences.
- (29.4%) **Biotechnology Technician:** Assist scientists in the pharmaceutical, agricultural or medical labs that produce existing products, or develop and test new ones. Set up lab equipment, like microscopes and filtration systems, trouble-shoot equipment problems, prepare solutions, do simple scientific procedures, collect data from these procedures and record data on a computer. May spend time outside the lab, working in greenhouses or out-of-doors with animals, plants or microorganisms.
- (29.3%) **Mold Maker:** Mix materials, assemble mold parts, fill molds, stack molds to mold and cast a wide range of products. Pour, pack, spread or press plaster, concrete, liquid plastic or other materials into or around models or molds. Load or stack filled molds in ovens, dryers, or curing boxes or on storage racks or carts. Clean, finish and lubricate molds and mold parts.
- (29.2%) **Painting Technician:** Apply coatings, such as paint, ink, or lacquer, to protect or decorate work piece surfaces, using spray guns, pens or brushes. Read job orders and inspect work pieces to determine work procedures and materials required. Select and mix ingredients to prepare coating substances according to specifications, using paddles or mechanical mixers. Examine finished surfaces of work pieces to verify conformance to specifications; then retouch any defective areas.
- (29.1%) **Personal Fitness Trainer:** Evaluate and advise individuals to assist recovery from or avoid athletic-related injuries or illnesses, or to maintain peak physical fitness. Collaborate with physicians to develop and implement comprehensive rehabilitation programs for athletic injuries. Care for athletic injuries, using physical therapy equipment, techniques, or medication. May provide first aid or emergency care. Travel with athletic teams to be available at sporting events.
- (29.1%) **Agent for Performers:** Full-time management of a group of performers. Collect fees, commissions or other payments, according to contract terms. Confer with performers to develop strategies for their careers, and to explain actions taken on their behalf. Develop contacts with individuals and organizations, and apply effective strategies and techniques to ensure performers' success. Negotiate with managers, promoters, union officials and other persons, regarding performers' contractual rights and obligations.
- (29.1%) **Milling Machine Operator:** Set up, operate or tend milling or planning machines to mill, plane, shape, groove or profile metal or plastic work pieces. Position and secure work pieces on machines, using holding devices, measuring instruments, hand tools and hoists. Observe milling or planning machine operation and adjust controls to ensure conformance with specified tolerances. Move controls to set cutting specifications, to position cutting tools and work pieces in relation to each other, and to start

### Careers which have a very low enjoyment percentage and suitability

- machines.
- (29.1%) **Licensed Practical Nurse:** Care for ill, injured, or convalescing patients or persons with disabilities, by providing basic patient care or treatments. Administer prescribed medications or start intravenous fluids, noting times and amounts on patients' charts. Observe patients, charting and reporting changes in patients' conditions, such as adverse reactions to medication or treatment and taking any necessary action. Answer patients' calls and determine how to assist them.
  - (29.1%) **Registered Nurse:** Assess patient health problems and needs, develop and implement nursing care plans, and maintain medical records. Administer nursing care to ill, injured, convalescent or disabled patients. Provides health care, first aid and immunization in facilities such as schools, hospitals and industry, and records patient's medical information and vital signs. Prepare patients for and assists with examinations, and orders, interprets and evaluate diagnostic tests to identify and assess patient's condition. Instruct on topics such as health education, disease prevention, child birth and home nursing, and develops health improvement programs.
  - (28.9%) **Rust Proofer - Vehicles:** Operate or tend painting machines to paint surfaces of transportation equipment, such as automobiles, buses, trucks, trains, boats and airplanes. Spray prepared surfaces with specified amounts of primers and decorative or finish coatings. Apply rust-resistant undercoats and caulk and seal seams. Sand the final finish, and apply sealer, once a vehicle has dried properly.
  - (28.8%) **Price Analyst:** Compile and analyse statistical data to determine feasibility of buying products and to establish price objectives for contract transactions. Evaluate findings and make recommendations regarding feasibility of manufacturing or purchasing needed products. Compile information from periodicals, catalogs and other sources to keep informed on price trends and manufacturing processes. Confer with vendors and analyze vendors' operations to determine factors that affect prices.
  - (28.8%) **Hard Tile Setter:** Apply hard tile to walls, floors, ceilings and roof decks. Cut and shape tile to fit around obstacles and into odd spaces and corners, using hand and power cutting tools. Lay and set mosaic tiles to create decorative wall, mural and floor designs. Finish and dress the joints and wipe excess grout from between tiles.
  - (28.8%) **Painter - Construction & Maintenance:** Paint walls, equipment, buildings, bridges and other structural surfaces using brushes, rollers and spray guns. Prepare and clean surface prior to painting and between coats. Mix and match colours of paint, stain or varnish. Receive order instructions from supervisor or homeowner.
  - (28.8%) **Welder and Cutter:** Use hand welding and flame-cutting equipment to weld together metal components and parts, or to cut, trim or scarf metal objects to dimensions, as specified by layouts, work orders or blueprints. Guide electrodes or torch along weld line at specified speed and angle to weld, melt, cut or trim metal. Review layouts, blueprints, diagrams or work orders in preparation for welding or cutting metal components. Inspect finished work piece for conformance to specifications.
  - (28.5%) **Powder Metallurgy Die Technician:** Based on parts of drawings, design complex tooling assembly drawings for upper & lower punches, molding dies and pins. Modify tooling assembly parts to conform to specifications from engineering changes, tryouts of tooling sets and trouble shooting for problems during production to complete quality improvements as required to maintain part standards. Verify conformance of repaired or modified tooling parts to specifications by checking dimensions, clearances and alignments. Maintain safety standards of equipment and work area.
  - (28.3%) **Insurance Appraiser - Auto:** Appraise automobile or other vehicle damage to determine repair costs for insurance claim settlement. Prepare insurance forms to indicate repair cost or cost estimates and recommendations. Estimate parts and labour to repair damage, using standard automotive labour and parts cost manuals and knowledge of automotive repair. May seek agreement with automotive repair shop on repair costs.
  - (28.3%) **Production Equipment Engineer:** Enforce product process material experiment, and perform research and development alternative materials, replacing the process import project plan. Troubleshoot production equipment, unusual problem analysis, as well as mechanical equipment maintenance. Improve implementation plan qualification, preventive maintenance, and implement preventive maintenance plan. Improve process equipment, and equipment function for production efficiency. Arrange training and personnel allocation, and regularly monitor progress.
  - (28.2%) **Driller:** Operate a variety of drills such as rotary, churn and pneumatic to tap sub-surface materials and to remove core samples during mineral exploration or testing. Monitor drilling operations, checking gauges and listening to equipment to assess drilling conditions and to determine the need to adjust drilling or alter equipment. Select and attach drill bits and drill rods, adding more rods as hole depths increase, and changing drill bits as needed. Drive or guide mechanically-mounted equipment into position, level and stabilize rigs, and extend telescoping derricks.
  - (27.8%) **Train Control Technician:** Install, inspect, test, maintain or repair electric gate crossings, signals, signal equipment, track switches, section lines or intercommunications systems within a railroad system. Inspect and test operation, mechanical parts and circuitry of gate crossings, signals and signal equipment, such as interlocks and hotbox detectors. Install, inspect, maintain and repair various railroad service equipment on the road or in the shop, including railroad signal systems. Record and report information about mileage or track inspected, repairs performed and equipment requiring replacement.
  - (27.8%) **Emergency Medical Technician:** Administer first-aid treatment or life-support care to sick or injured persons in pre-hospital settings. Assess nature and extent of illness or injury to establish and prioritize medical procedures. Perform emergency diagnostic and treatment procedures. Comfort and reassure patients.
  - (27.8%) **Miner - Oil, Gas Extract:** Set up and operate a variety of drills to remove underground oil and gas. Remove core samples for testing during oil and gas exploration. Mix the drilling mud. Examine operation of slush pumps to ensure circulation and consistency of drilling fluid or mud. Locate and recover lost or broken bits, casings and drill pipes from wells, using special tools.
  - (27.6%) **Light Engine Mechanic:** Diagnose, adjust, repair or overhaul automobile, bus and truck engines. Maintain and repair any type of

### Careers which have a very low enjoyment percentage and suitability

- diesel engines including auto and marine. Perform routine maintenance such as changing oil, checking batteries and lubricating equipment and machinery. Test-drive vehicles to diagnose malfunctions or to ensure that they are working properly.
- (27.6%) **Financial Analyst:** Analyse financial information to forecast business, industry or economic conditions. Monitor developments in the fields of industrial technology, business, finance and economic theory. Recommend investments and investment timing to companies, investment firm staff, or the public. Determine the prices at which securities should be syndicated and offered to the public.
- (27.5%) **Physician's Assistant:** Provide patient services under direct supervision and responsibility of doctor of medicine or osteopathy. Administer or order diagnostic tests such as x-ray, electrocardiogram and laboratory tests. Compile patient medical data including health history and results of physical examination. Interpret diagnostic test results for deviations from normal. Counsel patients regarding prescribed therapeutic regimens, normal growth and development, family planning, emotional problems of daily living and health maintenance.
- (27.5%) **Computer Equipment Repairer:** Repair, test, adjust or install electronic data processing equipment. Test faulty equipment to diagnose malfunctions. Install and test repaired equipment. Perform scheduled preventive maintenance tasks, such as checking, cleaning or repairing equipment, to detect and prevent problems.
- (27.4%) **Lathe Operator:** Set up, operate and monitor lathe or turning machines, shaping or threading wire, rod or bar stock. Determine specifications by reading blueprints and other documents. Change worn tools and perform routine maintenance; install the correct tooling; secure the work piece; adjust the controls as necessary and monitor the machine. Troubleshoot problems and determine the proper corrective actions.
- (27.3%) **Wire Electrode Cutting Technician:** Operate wire cutting machine. Processing according to the parts and mechanical drawing. Design mold. Use mapping software rendering parts. Repair, maintain cutting machine.
- (27.1%) **Forester - Professional:** Manage public and private forested lands for economic, recreational, and conservation purposes. Establish short-term and long-term plans for management of forest lands and forest resources. Choose and prepare sites for new trees, using controlled burning, bulldozers, or herbicides to clear weeds, brush, and logging debris. Supervise activities of other forestry workers.
- (27.0%) **Credit Checker:** Investigate history and credit standing of individuals or business establishments applying for credit. Interview credit applicants by telephone or in person, in order to obtain personal and financial data needed to complete credit report. Telephone or write to credit departments of business and service establishments, to obtain information about applicant's credit standing. Compile and analyse credit information gathered by investigation.
- (26.9%) **Bookbinding Specialist:** Bind books and other publications or finish printed products by hand or machine. Cut binder boards and cover material, fit and glue material to binder boards by hand or machine. Form book bodies by folding and sewing printed sheets to form signatures, and assembling signatures in numerical order. Design original or special bindings for limited editions or other custom binding projects.
- (26.9%) **Plumber:** Assemble, install and repair pipes, fittings and fixtures of heating, water and drainage systems according to specifications and plumbing codes. Study building plans and inspect structure to determine required materials, equipment and sequence of pipe installations. Direct workers engaged in pipe cutting and preassembly and installation of plumbing systems and components.
- (26.9%) **Salesperson (Telemarketing):** Initiating contact via telephone with prospects who do not already have an interest in the product or service. Attempt to persuade the prospect to purchase.
- (26.7%) **Economist:** Conduct research, prepare reports or formulate plans to address economic problems. Compile, analyse and report data to explain economic phenomena and forecast market trends. Provide advice and consultation on economic relationships to businesses, public and private agencies, and other employers. Develop economic guidelines and standards, and prepare points of view used in forecasting trends and formulating economic policy.
- (26.6%) **Pharmacy Technician:** Assist pharmacist to prepare and dispense medication. Fill orders for unit doses and pre-packaged pharmaceuticals, and perform other related duties under the supervision and direction of a pharmacy supervisor or staff pharmacist. Keep record of drugs delivered to pharmacy, store incoming merchandise in proper locations, monitor stock needs and shortages. Clean equipment used in the performance of duties and assist in the care and maintenance of equipment and supplies. Mix pharmaceutical preparations, fill bottles with prescribed tablets and capsules, and types labels for bottles.
- (26.3%) **Winemaker:** Monitor material flow or instruments, such as temperature or pressure gauges, indicators or meters to ensure optimal processing conditions. Set up or adjust machine controls to regulate conditions, such as material flow, temperature or pressure. Collect samples and examine visually or by hand to verify qualities, such as clarity, cleanliness, consistency, dryness and texture. Maintain logs of instrument readings, test results and shift production, and send production information to computer databases.
- (26.3%) **Prosthodontist:** Construct oral prostheses to correct natural and acquired deformation of mouth and jaws, in order to restore and maintain oral function and to improve appearance. Design and fabricate dental prostheses, as well as correct natural and acquired deformation of mouth and jaws through use of prosthetic appliances. Record physiologic position of jaws to determine shape and size of dental prostheses, using facebows, dental articulators and recording devices. Adjust prosthesis to fit patient.
- (26.2%) **Doctor - Medicine:** Diagnose and provide non-surgical treatment of diseases and injuries of internal organ systems, caring mainly for adults who have a wide range of problems. Prescribe or administer medication, therapy and other specialized medical care to treat or prevent illness, disease or injury. Treat internal disorders, such as hypertension, heart disease, diabetes and problems of the lung, brain, kidney and gastrointestinal tract. Analyse records, reports, test results or examination information to

### Careers which have a very low enjoyment percentage and suitability

- diagnose medical condition of patient.
- (26.2%) **Telecommunications Technician:** Install, test and repair communications and data communications systems such as fixed line and mobile telephony networks, copper wire and fibre-optic cabling, analogue and digital satellite systems, wireless radio networks providing internet access via PCs, mobile phones and PDAs. Lay, connect and test underground and underfloor cabling. Test and repair faults in public and private switching exchanges. Working with aerial rigging and related equipment. Install mobile and static antennae on buildings or masts. Design, build and test telecommunications components and equipment.
- (25.7%) **Machine Technician:** Observe machine operation to detect work piece defects or machine malfunctions, adjusting machines as necessary. Perform minor machine maintenance, such as oiling or cleaning machines, dies or work pieces, or adding coolant to machine reservoirs. Start machines and turn hand wheels or valves to engage feeding, cooling and lubricating mechanisms. Read blueprints or job orders to determine product specifications and tooling instructions and to plan operational sequences. Select, install and adjust alignment of drills, cutters, dies, guides and holding devices, using templates, measuring instruments and hand tools.
- (25.7%) **Open-Cut Mining Plant Operator:** Operate and monitor machinery and equipment, which cuts channels in a mine or quarry workforce. Operate continuous mining machines, drill holes for blasting and prepare machines for operation. Load and unload equipment from low loaders and move it around work sites. Drive machines to and from work sites. Service equipment by cleaning, lubricating and re-fuelling it and make minor adjustments and repairs when necessary.
- (25.6%) **Electrical Appliance Repairer:** Repair, adjust, or install all types of electrical appliances. Disassemble appliances so that problems can be diagnosed and repairs can be made. Replace worn and defective parts. Reassemble units after repairs are made, making adjustments and cleaning and lubricating parts as needed.
- (25.5%) **Salesperson (Retail):** Sell to the public any of a wide variety of merchandise in a retail store Compute sales price of merchandise and prepare sales slip or sales contract. Greet customer and answer question as needed.
- (25.4%) **Boilermaker:** Construct, assemble, maintain and repair stationary steam boilers and boiler house auxiliaries. Examine boilers, pressure vessels, tanks or vats to locate defects, such as leaks, weak spots or defective sections, and repair or replace defective pressure vessel parts. Assist in testing assembled vessels. Direct cleaning of boilers and boiler furnaces. Study blueprints to determine locations, relationships or dimensions of parts.
- (25.4%) **Floor Layer:** Sweep, scrape, sand or chip dirt and irregularities to clean base surfaces, correcting imperfections. Cut flooring material to fit around obstructions, trim excess covering materials to form tight joint. Form a smooth foundation, then roll and press sheet wall and floor covering into cement base. Smooth and finish surface.
- (25.3%) **Marine Mechanic:** Repair and adjust electrical and mechanical equipment of inboard or inboard-outboard boat and ship's engines such as power tilts, bilge pumps, propellers or shafts. Disassemble and inspect motors to locate defective parts, using mechanic's hand tools and gauges. Replace parts and reassemble engines. Document inspection and test results and work performed or to be performed.
- (25.0%) **Packer and Packager:** Pack or package by hand a wide variety of products and materials. Clean containers, materials, supplies or work areas using cleaning solutions and hand tools. Load materials and products into package processing equipment. Obtain, move and sort products, materials, containers and orders using hand tools. Examine and inspect containers, materials and products to ensure that packing specifications are met. Measure, weigh and count products and materials. Record product, packaging and order information on specified forms and records. Mark and label containers, container tags or products, using marking tools.
- (24.9%) **Medical Engineer:** Conduct research, along with life scientists, chemists and medical scientists, on the engineering aspects of the biological systems of humans and animals. Design and develop medical diagnostic and clinical instrumentation, equipment and procedures, using the principles of engineering and biobehavioral sciences. Install, adjust, maintain, repair or provide technical support for biomedical equipment. Evaluate the safety, efficiency and effectiveness of biomedical equipment.
- (24.7%) **Diver:** Work below surface of water, using scuba gear to inspect, repair, remove or install equipment and structures. Use a variety of power and hand tools, such as drills, sledgehammers, torches and welding equipment. Conduct tests or experiments, rig explosives, or photograph structures or marine life. Check and maintain diving equipment, such as helmets, masks, air tanks, harnesses or gauges, to ensure safe operation.
- (24.4%) **Timber worker:** Start conveyor and turn valves, controls and levers to remove bark and dirt from logs. Sort logs according to species, size and owner's markings into designated storage areas, using pike pole. Bind logs with chain or cable and bore holes into side and cross poles to thread chain and assemble logs into rafts for towing to mill. Guide, roll, or lift logs or log blocks onto skids, conveyors or log-haul chain for further processing. Measure and mark cutting locations on trees to obtain maximum yield of standard lengths.
- (24.4%) **Graduate Assistant - University:** Assist faculty or other instructional staff in postsecondary institutions by performing teaching or teaching-related duties. Evaluate and grade examinations, assignments or papers, and record grades. Demonstrate use of laboratory equipment and enforce laboratory rules. Copy and distribute classroom materials.
- (24.4%) **University Medical Teacher:** Teach courses in health specialties, in fields such as dentistry, laboratory technology, medicine, pharmacy, public health, therapy and veterinary medicine. Prepare course materials, such as syllabi, homework assignments and handouts. Evaluate and grade students' class work, assignments and papers. Supervise undergraduate or graduate teaching, internship and research work.
- (24.3%) **Semiconductor Engineer:** Manage product manufacturing procedure. Organize and analyse information. Analyse material. Collect project and technical data.



### Careers which have a very low enjoyment percentage and suitability

- (24.2%) **Dental Assistant:** Prepare patient, sterilize or disinfect instruments, set up instrument trays, prepare materials or assist dentist during dental procedures. Expose dental diagnostic X-rays. Record treatment information in patient records. Assist dentist in management of medical or dental emergencies.
- (24.2%) **General Farm Worker:** Feed and water livestock; and monitor food and water supplies. Inspect, maintain and repair equipment, machinery, buildings, pens, yards and fences. Clean stalls, pens and equipment, using disinfectant solutions, brushes, shovels, water hoses and/or pumps. Examine animals to detect illness, injury or disease, and to check physical characteristics, such as rate of weight gain.
- (24.1%) **Packaging Machine Operator:** Tend or operate machine that packages product. Observe machine operations to ensure quality and conformity of filled or packaged products to standards. Sort, grade, weigh and inspect products, verifying and adjusting product weight or measurement to meet specifications. Stop or reset machines when malfunctions occur; clear machine jams and report malfunctions to a supervisor. Monitor the production line, watching for problems such as pile-ups, jams or glue that isn't sticking properly.
- (24.0%) **Internet Marketing Specialist:** Employ search marketing tactics to increase visibility and engagement with content, products or services in Internet-enabled devices or interfaces. Examine search query behaviours on general or specialty search engines or other Internet-based content. Analyse research, data or technology to understand user intent and measure outcomes for ongoing optimization.
- (23.9%) **Tire Repairer and Changer:** Repair and replace tires, tubes, treads and related products on automobiles, buses, trucks and other vehicles. Remove wheel from vehicle by hand or by use of power hoist, and locate puncture in tire by visual inspection or by immersing inflated tire in water bath and observing air bubbles. Seal puncture in tire by inserting adhesive material and expanding rubber plug into puncture, using hand tools. Remount wheel onto vehicle.
- (23.6%) **Watchmaker:** Repair or replace broken, damaged or worn parts, using watchmaker's lathe, drill press and hand tools. Assemble mechanism, oil moving parts and demagnetize mechanism, using demagnetizing machine. Clean, rinse and dry parts, using watch-cleaning machine. Test accuracy of balance wheel assembly, and adjust timing regulator, using trueing callipers, watch-rate recorder and tweezers.
- (23.4%) **System Integration Engineer:** Research, design, develop or test computer or computer-related equipment for commercial, industrial, military or scientific use. Store, retrieve, and manipulate data for analysis of system capabilities and requirements. Confer with engineering staff and consult specifications to evaluate interface between hardware and software, and operational and performance requirements of overall system. Monitor functioning of equipment and make necessary modifications to ensure system operates in conformance with specifications. Analyse user needs and recommend appropriate hardware.
- (23.4%) **Automotive Mechanic:** Repair automobiles, trucks, buses and other vehicles. Examine vehicles to determine extent of damage or malfunctions. Tear down, repair and rebuild faulty assemblies, such as power systems, steering systems and linkages. Test drive vehicles, and test components and systems.
- (23.4%) **Motorcycle Mechanic:** Diagnose, adjust, repair, or overhaul motorcycles, scooters, mopeds, dirt bikes or similar motorized vehicles. Connect test panels to engines and measure generator output, ignition timing or other engine performance indicators. Dismantle engines and repair or replace defective parts. Hammer out dents and bends in frames, then reassemble frames and reinstall engines.
- (23.4%) **Tax Examiner, Tax Collector:** Examine and analyse tax assets and liabilities to determine resolution of delinquent tax problems. Investigate and audit legal instruments, other documents, financial transactions, operation methods, and industry practices to assess inclusiveness of accounting records and tax returns. Select appropriate remedy, such as partial-payment agreement, offer of compromise, or seizure and sale of property. Confer with taxpayer or representative to explain issues involved and applicability of pertinent tax laws and regulations, and secure taxpayer's agreement to discharge tax assessment or submit contested determination to other administrative or judicial conferees for appeals hearings.
- (23.2%) **Metal, Plastic Patternmaker:** Lay out, machine, fit, and assemble castings and parts to metal or plastic foundry patterns. Set up and operate machine tools in order to machine castings or patterns. Read and interpret blueprints or drawings; then compute dimensions and plan operational sequences. Program computerized numerical control machine tools.
- (23.1%) **Podiatrist:** Diagnose and treat diseases and deformities of the human foot. Diagnose ailments such as tumours, ulcers, fractures, skin or nail diseases and deformities utilising urinalysis, blood tests and x-rays. Treat conditions such as corns, calluses, ingrown nails, tumours, shortened tendons, bunions, cysts and abscesses, by surgical methods. Treat bone, muscle and joint disorders. Prescribe corrective footwear. Advise patients concerning continued treatment of disorders and foot care to prevent recurrence of disorders.
- (22.7%) **Precision Printing Worker:** Perform variety of precision printing activities such as duplication of microfilm and reproduction of graphic arts materials. Operate automatic processor to develop photographs, plates or base material used in single or multicolour proofs. Set up and operate various types of camera to produce negatives, Photostats or plastic or paper printing plates. Operate offset-duplicating machine or small printing press to reproduce single or multicolour copies of line, drawings, graphs or similar materials.
- (22.3%) **Plant Reproduction Scientist:** Conduct research into breeding, production and yield of plants or crops, and control of pests. Research to determine best methods of planting, spraying, cultivating and harvesting horticultural products. Experiment to develop new or improved varieties of products having specific features, such as higher yield, resistance to disease, size or maturity. Aid in control and elimination of agricultural, structural and forest pests, by developing new and improved pesticides.
- (22.3%) **Audiologist:** Assess and treat persons with hearing and related disorders such as balance disorders. Plan and conduct

### Careers which have a very low enjoyment percentage and suitability

- treatment programs for patients' hearing or balance problems, consulting with educators, physicians, nurses, psychologists, speech-language pathologists and other health care personnel as necessary. Counsel and instruct patients and their families in techniques to improve hearing and communication related to hearing loss. Participate in conferences or training to update or share knowledge of new hearing or balance-disorder treatment methods or technologies.
- (21.7%) **Molding Technician:** Apply theory and principles of mechanical engineering to modify, develop, test or calibrate machinery and equipment under direction of engineering staff or physical scientists. Review project instructions and specifications to identify, modify and plan requirements fabrication, assembly and testing. Read dials and meters to determine amperage, voltage, electrical output and input at specific operating temperature to analyse parts performance. Discuss changes in design, method of manufacture and assembly, drafting techniques and procedures, with staff and coordinate corrections. Confer with technicians and submit reports of test results to engineering department and recommend design or material changes.
- (21.7%) **Nursing Instructor:** Instruct and lecture nursing students in principles and application of physical, biological and psychological subjects related to nursing. Issue assignments to students, conduct and supervise laboratory work. Participate in planning curriculum, teaching schedule and course outline with medical and nursing personnel. Supervise student nurses and demonstrate patient care in clinical units of hospital. Evaluate student progress and maintain records of student classroom and clinical experience.
- (21.6%) **Woodworking Machine Operator:** Operate or tend woodworking machines, such as drill presses, lathes, shapers, routers, sanders, planers and wood-nailing machines to perform woodworking operations. Select knives, blades, cutter heads, boring-bits or sanding-belts, according to work piece, machine function and specifications. Examine blueprints, drawings or samples to determine size, type and setting of machine tools, stops, jigs and guides to use. Examine finished work piece for smoothness, shape, angle, depth-of-cut and conformity to specifications, visually and using hands, rule or other gauges.
- (21.6%) **Home Cleaning Service Worker:** Clean rooms, hallways, lobbies, lounges, restrooms, corridors, elevators, stairways, locker rooms and other work areas so that health standards are met. Clean rugs, carpets, upholstered furniture and draperies, using vacuum cleaners and shampooers. Carry linens, towels, toilet items and cleaning supplies, using wheeled carts. Replenish supplies, such as drinking glasses, linens, writing supplies and bathroom items.
- (21.6%) **Janitor, Cleaner:** Perform cleaning duties, such as cleaning floors, shampooing rugs, washing walls and glass and removing rubbish. May perform routine maintenance activities or notify management of need for repairs. Help monitor building security and safety.
- (21.4%) **Medical Assistant:** Interview patients to obtain medical information and measure their vital signs, weight and height. Help physicians examine and treat patients, handing them instruments or materials, or performing such tasks as giving injections or removing sutures. Record patients' medical history, vital statistics or information such as test results, in medical records. Collect blood, tissue or other laboratory specimens; log the specimens and prepare them for testing.
- (21.4%) **Assembler - Machines:** Construct, assemble or rebuild machines such as engines, turbines and similar equipment used in such industries as construction, extraction, textiles and paper manufacturing. Read and interpret assembly blueprints or specifications manuals and plan assembly or building operations. Position or align components for assembly; rework, repair or replace damaged parts or assemblies. Inspect, operate and test completed products to verify functioning, capabilities or conformance to customer specifications.
- (21.4%) **Biotechnologist:** Modify or manipulate living organisms to develop new products, such as pharmaceuticals, biofuels or agricultural products. Conduct experiments and develop materials in public and private laboratories. Work as research technician by setting up instruments and laboratory equipment, such as centrifuges, flasks and spectrophotometers. Record data and prepare reports for research scientist. Design research studies, analyse data and develop procedures.
- (21.4%) **Insurance Claims Clerk:** Obtain information from insured or designated persons for purpose of settling claim with insurance carrier. Review insurance policy to determine coverage. Prepare insurance claim forms or related documents and review them for completeness. Calculate amount of claim applying insurance rating systems.
- (21.2%) **Hotel Porter:** Welcome guests when they arrive at the hotel. Show guests to their rooms, explain room facilities, running errands for guests (e.g. taking and picking up dry cleaning). Give directions and answer questions about local attractions, making travel, theatre or restaurant reservations. Carry luggage bags to and from their rooms.
- (21.2%) **Court Reporter/transcriber:** Record verbatim proceedings of courts, legislative assemblies, committee meetings and other proceedings, using computerized recording equipment, electronic stenograph machines, or steno masks. Take notes in shorthand or use a stenotype or shorthand machine. Provide transcripts of proceedings upon request of judges, lawyers, or the public. File a legible transcript of records of a court case with the court clerk's office.
- (21.0%) **Medical, Clinical Lab Technician:** Perform routine medical laboratory tests. Conduct chemical analyses of body fluids to detect abnormalities or diseases, and enter findings into computer. Analyse and record test data to issue reports that use charts, graphs or narratives. Set up, maintain, calibrate, clean and test sterility of medical laboratory equipment.
- (21.0%) **Anaesthesiologist:** Examine patient, obtain medical history and use diagnostic tests to determine risk during surgical, obstetrical and other medical procedures. Administer anaesthetic or sedation during medical procedures, using local, intravenous, spinal or caudal methods. Monitor patient before, during and after anaesthesia and counteract adverse reactions or complications. Provide and maintain life support and airway management, and help prepare patients for emergency surgery. Confer with other medical professionals to determine type and method of anaesthetic or sedation to render patients insensible to pain.
- (21.0%) **Doctor - Osteopathy:** Diagnose and provide non-surgical treatment of diseases and injuries of the musculoskeletal system, i.e.

### Careers which have a very low enjoyment percentage and suitability

- nerves, muscles and bones. Check posture, spine and balance of patient as well as joints, muscles, tendons and ligaments for any irregularities. Prescribe or administer medication, therapy and other specialized medical care to treat or prevent illness, disease or injury. Analyse records, reports, test results or examination information to diagnose medical condition of patient.
- (20.8%) **Cabinet Maker:** Establish the specifications of articles to be constructed or repaired and plan operations based on blueprints, drawings, diagrams, oral or written instructions. Cut, shape and assemble wooden articles, or set up and operate a variety of woodworking machines to fabricate wood products, such as furniture, store fixtures, office equipment or cabinets. Match materials for colour, grain or texture, giving attention to knots or other features of the wood. Trim, sand or scrape surfaces or joints to prepare articles for finishing.
- (20.5%) **Medical Researcher - Disease and human health:** Conduct research dealing with understanding of human diseases and human health. Engage in clinical investigation or other research, production, technical writing or related activities. Analyse data, apply statistical techniques and scientific knowledge, prepare reports and present findings. Investigate causes, progress, life cycle or mode of transmission of diseases or parasites. Study effects of drugs, gases, pesticides, parasites or micro-organisms, or health and physiological processes of animals and humans. Conduct research to develop methodologies, instrumentation or identification, diagnosing and treatment procedures for medical application.
- (20.3%) **Textile Dyeing and Finishing Technician:** Mix the chemical recipe for dyeing both natural and synthetic textiles. Use computer-controlled instruments to mix dyes. Decide on the chemical formula that would create the right colour. Work out the right dyeing method and temperature for the fabric. Produce the final formula for use in the manufacturing process. Recommend any special finishes or treatments to be applied after the dyeing process.
- (20.3%) **Salesperson (Actively Attempts to Persuade):** Initiate contact with customers. Attempt to discover customers' needs. Attempt to persuade customers to purchase something that meets their needs.
- (20.1%) **Upholsterer:** Make, repair and replace upholstery for household furniture or transportation vehicles, using knowledge of fabrics and methods of upholstery. Read order and apply knowledge and experience with materials to determine type and amount of material required to cover work piece. Measure and cut new covering material, using pattern, and measuring and cutting instruments. Operate sewing machine to seam cushions and join various sections of covering material. Fit, install, and secure material on work piece, using hand tools, power tools, glue, cement or staples.
- (20.1%) **Financial Counsellor:** Analyse financial information obtained from clients to determine strategies for meeting clients' financial objectives. Sell financial products such as stocks, bonds, mutual funds and insurance if licensed to do so. Build and maintain client bases, keep current client plans up-to-date and recruit new clients. Review clients' accounts and plans regularly to determine whether life or economic changes or financial performance indicate a need for plan reassessment.
- (20.0%) **Pest Controller:** Spray or release chemical solutions or toxic gases and set mechanical traps to kill pests and vermin such as mice, termites and roaches that infest buildings and surrounding areas. Inspect premises to identify infestation source and extent of damage to property, wall and roof porosity, and access to infested locations. Direct and/or assist other workers in treatment and extermination processes to eliminate and control rodents, insects and weeds. Measure area dimensions requiring treatment, using rule, calculate fumigant requirements and estimates cost for service.
- (20.0%) **Audiometrist:** Administer audiometric screening and threshold tests to individuals or groups under the supervision of an Audiologist or Otolaryngologist. Fit earphones on subject and provides instruction on procedures to be followed. Adjust audiometer to control sound emitted and record subjects' responses. Refer individuals to Audiologist for interpretation of test results.
- (19.6%) **Management Analyst:** Conduct organizational studies and evaluations; design systems and procedures to assist management in operating more effectively. Gather and analyse information and develop solutions or alternative methods of proceeding. Prepare manuals and train workers in use of new procedures. Interview personnel and conduct on-site observation to ascertain effectiveness of new procedures and benefits obtained.
- (19.6%) **Salesperson for Health Products or Services:** Sell to the public any of a wide variety of health-related merchandise. Compute sales price of merchandise and prepare sales slip or sales contract. Greet customer, demonstrate use or operation of merchandise, and recommend, select and obtain merchandise based on customer needs and desires.
- (19.5%) **Cost Estimator:** Prepare cost estimates for product manufacturing, to aid management in bidding on or determining price of product or service. Analyse blueprints and other documentation to prepare time, cost, materials and labour estimates. Prepare estimates for use in selecting vendors or subcontractors. Prepare estimates used by management for purposes such as planning, organizing and scheduling work.
- (19.5%) **Precision Polishing Technician:** Set up and operate grinding or polishing machines to grind metal work pieces such as dies, parts and tools. Select and mount grinding wheels on machines according to specifications using hand tools and applying knowledge of abrasives and grinding procedures. Inspect, feel and measure work pieces to ensure that surfaces and dimensions meet specifications.
- (19.3%) **Salesperson for Insurance:** Sell Insurance. Develop and contact prospective customers to present information and explain available services, and help determine customers' financial services needs, and prepare proposals to sell services.
- (19.3%) **Shoe and Leather Worker and Repairer:** Assemble product according to specifications, utilizing sewing machine, needle and thread, or leather lacing, glue, clamps or rivets. Sew rips or patch holes by hand or machine to repair articles, such as purses, shoes and luggage. Repair and recondition products such as trunks, luggage, shoes and saddles. Fabricate articles such as purses, wallets, belts, luggage frames and shoes, using materials such as dyes, soaks, paints, stamps, or engraves leather to obtain desired effect or shape. Read prescription or specifications and measures item, using callipers, tape measures, or rule.

### Careers which have a very low enjoyment percentage and suitability

- (19.2%) **Dry Cleaning Machine Operator:** Operate or tend dry-cleaning machines to dry-clean industrial or household articles, such as cloth garments, suede, leather, furs, blankets, draperies. Receive and mark articles for cleaning, with identifying code numbers or names. Examine and sort into lots articles to be cleaned, according to colour, fabric, dirt content and cleaning technique required. Sort and count articles removed from dryers, and fold, wrap or hang them.
- (19.0%) **Crane Operator:** Operate mechanical boom and cable, or tower and cable equipment, to lift and move loads. Determine load weights and check them against lifting capacities to prevent overload. Move levers, depress foot pedals or turn dials to operate cranes, cherry pickers, electromagnets or other moving equipment. Clean, lubricate and maintain machinery and equipment.
- (19.0%) **Grader/ Bulldozer/ Scraper Operator:** Operate power construction equipment, such as motor graders, bulldozers and scrapers. Excavate, move and grade earth. Repair and maintain equipment. Learn and follow safety regulations.
- (19.0%) **Laboratory Technician:** Receive and prepare laboratory samples for analysis. Record data and prepare data summaries, reports or analyses that include results, charts or graphs. Collect samples so testing can be performed. Set up laboratory or field equipment and prepare sites for testing, operate laboratory equipment.
- (18.8%) **Automotive Body Repairer:** Repair and refinish automotive vehicle bodies and straighten vehicle frames. File, grind, sand and smooth filled- or repaired-surfaces using power tools and hand tools. Prime and paint repaired surfaces. Remove damaged sections of vehicles and install replacement parts.
- (18.8%) **Sheet Metal Worker:** Set up and operate fabricating machines, such as shears, brakes, presses and routers, to cut, bend, block and form materials. Weld, solder, bolt, rivet, screw, clip, caulk or bond component parts to assemble products, using hand tools, power tools and equipment. Determine sequence and methods of fabricating, assembling and installing sheet metal products, using blueprints, sketches or product specifications.
- (18.8%) **Farm Equipment Mechanic:** Diagnose, adjust, repair or overhaul farm machinery and vehicles, such as tractors, harvesters, dairy equipment and irrigation systems. Repair or replace defective parts, using hand tools, milling and woodworking machines, lathes, welding equipment, grinders or saws. Maintain, repair and overhaul farm machinery and vehicles, such as tractors, harvesters and irrigation systems. Record details of repairs made, and parts used.
- (18.7%) **University Teacher - Business Related Subject:** Teach courses pertaining to business, such as business, marketing or accounting. Prepare course materials, such as syllabi, homework assignments and handouts. Prepare and deliver lectures to undergraduate or graduate students. Evaluate and grade students' class work, laboratory work, assignments, and papers. Supervise undergraduate or graduate teaching, internship and research work.
- (18.6%) **Optometrist:** Diagnose, manage and treat conditions and diseases of the human eye and visual system. Examine eyes to determine visual efficiency and performance by use of instruments and observation. Prescribe eyeglasses, contact lenses and other vision aids or therapeutic procedures to correct or conserve vision. Examine eyes to determine visual acuity and perception and to diagnose diseases and other abnormalities such as glaucoma and colour blindness.
- (18.6%) **Postal - Mail Carrier:** Insert mail into slots of mail rack to sort mail for delivery. Drive vehicle over established route in residences and business establishments to deliver mail. Complete delivery form, collect charges and obtain signature on receipts for delivery of specified types of mail. Enter changes of address in route book and re-address mail to be forwarded. Sell stamps and issue money orders.
- (18.4%) **Construction Cost Consultant:** Prepare cost estimates for construction projects or services, to aid management in bidding on or determining price of product or service. Prepare estimates for use in selecting vendors or subcontractors. Prepare estimates used by management for purposes such as planning, organizing and scheduling work. Prepare cost and expenditure statements and other necessary documentation at regular intervals for the duration of the project.
- (18.2%) **Food Scientist:** Use chemistry, microbiology, engineering and other sciences, to study the principles underlying the processing and deterioration of foods. Analyse food content to determine levels of vitamins, fat, sugar and protein. Discover new food sources and research ways to make processed foods safe, palatable and healthful. Develop food standards and production specifications, safety and sanitary regulations.
- (18.0%) **Medical Receptionist:** Greet patients. Schedule appointments. Keep medical records. Retrieve patient medical records for physicians, technicians or other medical personnel.
- (18.0%) **Mover:** Move domestic and commercial furniture between different locations, within the state or territory and nationwide. Inspect the house or office at the pick-up address to see what has to be moved, then pack and label items if required. Load goods onto the truck either by hand, or by using a forklift, trolleys, lifting straps or lifting hooks. Drive defensively and handle all types of road conditions, unload goods and move them into the drop-off address, unpacking if required.
- (18.0%) **Transit Clerk:** Operate machines to encode, add, cancel, photocopy, and sort checks, drafts, and money orders for collection and prove records of transactions. Read check and enter data, such as amount, bank or account number, using keyboard. Record, sort and proof other transaction documents, such as deposit and withdrawal slips, using proof machine. Compare machine totals to listing received with batch of checks, and recheck each item if totals differ.
- (17.9%) **Precision Instrument Maker:** Set up and operate a variety of machine tools to produce precision parts and instruments. Calculate dimensions and tolerances using knowledge of mathematics and instruments such as micrometers and vernier callipers. Design fixtures, tooling or experimental parts to meet special engineering needs. Confer with numerical control programmers to check and ensure that new programs or machinery will function properly and that output will meet specifications.
- (17.8%) **Lawyer:** Represent clients in civil or criminal litigation in court or before government agencies. Interpret laws, rulings and regulations for individuals and businesses. Draw up legal documents or advise clients on legal transactions. Prepare legal briefs and opinions, and file suits and appeals in courts.



### Careers which have a very low enjoyment percentage and suitability

- (17.8%) **Concrete Worker:** Smooth and finish surfaces of poured concrete, such as floors, walks, sidewalks, roads or curbs, using a variety of hand and power tools. Align forms for sidewalks, curbs or gutters; patch voids; and use saws to cut expansion joints. Direct the casting of the concrete, and supervise labourers who use shovels or special tools to spread it. Apply hardening and sealing compounds to cure surface of concrete, and waterproof or restore surface.
- (17.6%) **Pharmacist:** Compound and dispense medications following prescriptions issued by physicians, dentists or other authorized medical practitioners. Plan and implement procedures in pharmacy, such as mixing, packaging and labelling pharmaceuticals, according to policies and legal requirements. Review prescription to assure accuracy and determine ingredients needed, answer questions and provide information to pharmacy customers on drug interactions, side effects, dosage and storage of pharmaceuticals. Maintain established procedures concerning quality assurance, security of controlled substances; maintain records, such as pharmacy files, charge system, inventory and control records.
- (17.4%) **Electrician:** Install, maintain, and repair electrical wiring, equipment and fixtures. Test electrical systems or continuity of circuits in electrical wiring, equipment or fixtures, using testing devices, such as ohmmeters, voltmeters or oscilloscopes, to ensure compatibility and safety of system. Diagnose malfunctioning systems, apparatus or components, using test equipment and hand tools to locate the cause of a breakdown and correct the problem. Construct and fabricate parts, using hand tools and specifications.
- (17.4%) **Heating and Air Conditioning Mechanic:** Install, service or repair heating and air conditioning systems, in residences or commercial establishments. Repair or replace defective equipment, components or wiring. Test electrical circuits or components for continuity. Test pipe or tubing joints or connections for leaks. Reassemble and test equipment following repairs.
- (17.4%) **Sheet Metal Technician:** Fabricate, assemble, install and repair sheet metal products and equipment, such as ducts, control boxes, drainpipes and furnace casings. Select gauges or types of sheet metal or non-metallic material, according to product specifications. Fabricate or alter parts at construction sites, using shears, hammers, punches or drills. Install assemblies, such as flashing, pipes, tubes, heating and air conditioning ducts, furnace casings, rain gutters or downspouts in supportive frameworks.
- (17.4%) **Waterproofing Machine Operator:** Set up, operate, or tend plating or coating machines to coat metal or plastic products with chromium, zinc, copper, cadmium, nickel or other metal to protect or decorate surfaces. Immerse objects to be coated or plated into cleaning solutions, or spray objects with conductive solutions to prepare them for plating. Remove objects from solutions at periodic intervals and observe objects to verify conformance to specifications. Monitor and measure thicknesses of electroplating on component parts in order to verify conformance to specifications, using micrometers.
- (17.2%) **Laser Operator:** Operate machines to cut multiple layers of fabric into parts for articles such as canvas goods, house furnishings, garments, hats or stuffed toys. Start machines, monitor operations and make adjustments as needed. Confer with co-workers to obtain information about orders, processes or problems. Adjust cutting techniques to types of fabrics and styles of garments.
- (17.0%) **Farm Management Advisor:** Advise, instruct and assist individuals, families and businesses engaged in agriculture or agricultural-related processes. Collaborate with producers in order to diagnose and prevent management and production problems. Conduct classes or deliver lectures. Advise farmers and demonstrate techniques in areas, such as feeding and health maintenance of livestock, growing and harvesting practices, and financial planning.
- (16.9%) **Computer Security Specialist:** Plan, implement, upgrade or monitor security measures for the protection of computer networks and information. Encrypt data transmissions and erect firewalls to conceal confidential information as it is being transmitted, and to keep out tainted digital transfers. Monitor use of data files and regulate access to safeguard information in computer files. Perform risk assessments and execute tests of data processing system to ensure functioning of data processing activities and security measures.
- (16.8%) **Botanist:** Study development and life processes, physiology, heredity, environment, distribution, anatomy, morphology and economic value of plants. Investigate environment and plant communities and effect of rainfall, temperature, climate, soil and elevation on plant growth. Prepare reports and papers for interested readerships, including the agricultural industry, growers, ecologists, government authorities and the general public. Identify and classify plants.
- (16.8%) **Electroneurodiagnostic Technologist:** Conduct electroneurodiagnostic (END) tests such as electroencephalograms. Monitor patients during tests or surgeries, using electroencephalographs (EEG), evoked potential (EP) instruments or video recording equipment. Conduct tests to determine cerebral death, the absence of brain activity or the probability of recovery from a coma. Measure visual, auditory or somatosensory evoked potentials (EPs) to determine responses to stimuli.
- (16.7%) **Cardiology Technologist:** Conduct tests on cardiovascular systems of patients for diagnostic purposes. Monitor patients' blood pressure and heart rate using electrocardiogram (EKG) equipment. Observe gauges, recorder and video screens of data analysis system during imaging. Explain testing procedures to patients to obtain cooperation and reduce anxiety. Monitor patients' comfort and safety during tests.
- (16.3%) **Stonemason:** Shape, trim, face and cut marble or stone preparatory to setting, using power saws, cutting equipment and hand tools. Align and level stone or marble, using measuring devices, and set stone or marble in place, according to layout or pattern. Smooth, polish and bevel surfaces, using hand tools and power tools. Repair cracked or chipped areas of ornamental stone or marble surface, using blowtorch and mastic.
- (16.1%) **Salesperson for Financial Services:** Sell financial services, such as loan, tax and securities counselling, to customers of financial institutions and business establishments. Develop and contact prospective customers to present information and explain available services; help determine customers' financial services needs; and prepare proposals to sell services.
- (15.8%) **Driving Instructor:** Teach or instruct individuals or groups to safely operate a motorized vehicle such as an automobile, truck or

### Careers which have a very low enjoyment percentage and suitability

- rig. Prepare instructional program objectives, outlines and lesson plans. Monitor students' performance to make suggestions for improvement and to ensure that they satisfy course standards, training requirements and objectives. Observe students to determine qualifications, limitations, abilities, interests and other individual characteristics.
- (15.5%) **Carpenter:** Build or repair cabinets, doors, frameworks, floors or other wooden fixtures used in buildings, using woodworking machines, carpenter's hand tools or power tools. Study specifications in blueprints, sketches or building plans to prepare project layout and determine dimensions and materials required. Shape or cut materials to specified measurements, using hand tools, machines or power saws. Make minor repairs to tools and maintain a safe and clean environment.
- (15.3%) **Forester Aide:** Perform manual labour necessary to develop, maintain, or protect areas such as forests, forested areas, woodlands, wetlands, and rangelands. Check equipment to ensure that it is operating properly. Confer with other workers to discuss issues such as safety, cutting heights, or work needs. Fight forest fires or perform prescribed burning tasks under the direction of fire suppression officers or forestry technicians.
- (15.1%) **Salesperson for Real Estate:** Display and explain features of property to client and discuss conditions of sale or terms of lease, as well as answer client's questions regarding work under construction, financing, maintenance, repairs and appraisals. Prepare real estate contracts, such as closing statements, deeds, leases and mortgages, and negotiate loans on property, and oversees signing of real estate documents, disburse funds and coordinate closing activities. Plan and organize sales promotion programs and materials, including newspaper advertisements and real estate promotional booklets.
- (15.1%) **Excavator, Loader Operator:** Operate or tend machinery equipped with scoops, shovels or buckets, to excavate and load loose materials. Set up or inspect equipment prior to operation. Operate machinery to perform activities such as backfilling excavations, vibrating or breaking rock or concrete, or making winter roads. Lubricate, adjust or repair machinery and replace parts, such as gears, bearings or bucket teeth.
- (14.9%) **Data Entry Specialist:** Transcribe information from one source to another, usually into a computer. Be accurate, while at the same time enter data quickly. Usually this job has minimal people interaction.
- (14.7%) **Construction Worker:** Perform tasks involving physical labour at construction sites, such as operating hand and power tools of all types. Clean and prepare sites, dig trenches, set braces to support the sides of excavations, erect scaffolding and clean up rubble, debris and other waste materials. Assist other craft workers. Control traffic passing near, in or around work zones.
- (14.5%) **Roofer:** Cover roofs of structures with slate, asphalt, aluminium, wood and related materials, using brushes, knives, punches, hammers and other tools. Fasten composition shingles or sheets to roof with asphalt, cement or nails, and apply alternate layers of hot asphalt or tar and roofing paper until roof covering is completed as specified. Cut roofing paper to size, and nail or staple paper to roof, in overlapping strips to form base for roofing materials.
- (14.5%) **Court Clerk:** Perform clerical duties in court of law; prepare docket of cases to be called; secure information for judges. Contact witnesses, attorneys and litigants to obtain information for court. Record case dispositions, court orders, or arrangements made for payment of court fees. Prepare and issue orders of the court, such as probation orders, release documentation, sentencing information, or summonses.
- (14.5%) **E-Commerce Specialist:** Implement website operations. Operate website, improve on mechanisms and increase efficacy of the website business. Consult with engineering staff to evaluate interface between hardware and software, develop specifications and performance requirements or resolve customer problems. Plan network marketing activities to achieve operational goals.
- (14.5%) **Sewing Machine Operator:** Operate or tend sewing machines to perform garment sewing operations, such as joining, reinforcing or decorating garments or garment parts. Draw thread through guides, tensions and needles and adjust machine functions, according to fabric type. Position item under needle, using marks on machine, clamp or template, edges of cloth or markings on cloth as guides. Select supplies, such as fasteners and thread, according to specifications or characteristics of fabric.
- (14.4%) **Insurance Underwriter:** Write to field representatives, medical personnel and others to obtain further information, quote rates or explain company underwriting policies. Review company records to determine amount of insurance in force on single risk or group of closely related risks. Decrease value of policy when risk is substandard, and specify applicable endorsements or apply rating to ensure safe profitable distribution of risks, using reference materials. Evaluate possibility of losses due to catastrophe or excessive insurance. Examine documents to determine degree of risk from such factors as applicant financial standing, and value and condition of property.
- (14.4%) **Rigger:** Set up or repair rigging for ships and shipyards, manufacturing plants, logging yards, construction projects and for the entertainment industry. Fabricate and repair rigging, such as slings, tackle and ladders, using hand and power tools. Signal or give verbal directions to workers engaged in hoisting and moving loads, to ensure safety of workers and materials. Align, level and anchor machinery, and control movement of heavy equipment through narrow openings or confined spaces.
- (14.2%) **Textile Machine Operator:** Operate or tend textile machines that perform textile processing and manufacturing operations, such as winding, twisting, knitting, weaving and cutting. Start machine and observe operation to detect malfunctions or defects, such as breaking or twisting of material or thread. Examine and inspect cut yarn, lace or other material for defects, dirt and conformance to colour and size specifications. Record production information, such as lot or style number, yardage, number of defects and machine stops, and types of defects.
- (14.2%) **Floral Designer:** Design, cut and arrange live, dried or artificial flowers and foliage. Select flora and foliage for arrangements, working with numerous combinations to synthesize and develop new creations. Order and purchase flowers and supplies from wholesalers and growers. Confer with clients regarding price and type of arrangement desired and the date, time and place of delivery.

### Careers which have a very low enjoyment percentage and suitability

- (14.0%) **Framer:** Install mirrors or pictures in wooden, plastic or metal frames. Assemble frames from pre-cut material, and glue, nail, screw or staple material together, using clamps, hand tools and power tools. Place glass, picture or mirror into frame. Drill holes with portable electric drill, and bolt or screw hangers to mirror backing.
- (13.9%) **Waiter or Waitress:** Present menu to patrons, suggest food or beverage selections and answer questions regarding preparation and service. Take orders for food or beverage, relay the order to kitchen or enter order into computer. Serve meals or beverages to patrons and observe patrons to respond to additional requests. Provide the bill when requested.
- (13.9%) **Park Naturalist:** Plan, develop and conduct programs to inform public of historical, natural and scientific features of national, state or local park. Conduct field trips to point out scientific, historic and natural features of park. Prepare and present illustrated lectures of park features. Survey park to determine forest condition and distribution and abundance of fauna and flora. Perform emergency duties to protect human life, government property, and natural features of park.
- (13.9%) **Property & Contract Administrators:** Work as part of a team that does the following: Coordinate property procurement and disposition activities of a business, agency or other organization. Administer contracts for purchase or sale of equipment, materials, products or services. Prepare, review and negotiate bids and estimates with firms, bidders and customers. Advise company departments concerning contractual rights and obligations.
- (13.8%) **Glazier:** Read and interpret blueprints or specifications to determine size, shape, colour, type or thickness of glass. Fabricate or install metal sashes or moldings for glass installation. Cut, fit, install, repair or replace glass or glass substitutes, such as plastic or aluminium. Cut and remove broken glass, prior to installing replacement glass.
- (13.7%) **Transplant Coordinator:** Assist medical team in retrieval of organs for transplantation, using medical instruments. Solicit medical and community groups for organ donors. Communicate with donors, patients and health team members to ensure comprehensive documentation. Analyse medical data of organ donors and recipients from medical and social records, physical examination and consultation with health team. Correlate and summarize laboratory reports, X-rays and office test to assist physician to determine medical suitability or procedure. Advise post-operative patients on therapies for managing health after transplant, and serve as team member monitor.
- (13.6%) **Marketing Specialist (Focus on Branding):** Analyse a product or company and determine the optimal presentation for branding. Create concepts that brand the product or company in a manner that is attractive.
- (13.0%) **Lawn Service Worker:** Maintain lawns and grounds. Operate and maintain the necessary tools and machines. Interact with the customer when necessary.
- (12.9%) **Chiropractor:** Assess, treat and care for patients by manipulation of spine and musculoskeletal system. Diagnose health problems by reviewing patients' health and medical histories, questioning, observing, and examining patients and interpreting X-rays. Perform a series of manual adjustments to the spine or other articulations of the body to correct the musculoskeletal system. Maintain accurate case histories of patients.
- (12.8%) **Hotel Room Cleaner:** Clean the hotel rooms as needed. Answer questions for guests.
- (12.6%) **Insurance Policy Clerk:** Process applications for insurance policies or changes to insurance policies, including reinstatement and cancellation. Process, prepare and submit business or government forms, such as submitting applications for coverage to insurance carriers. Correspond with insured or agent to obtain information or inform them of account status or changes. Collect initial premiums and issue receipts.
- (12.6%) **Marketing Specialist (Focus on Research):** Conduct market research. Analyse market opportunities.
- (12.5%) **Bricklayer:** Measure distance from reference points and mark guidelines to lay out work, using plumb bobs and levels. Mix specified amounts of sand, clay, dirt or mortar powder with water to form refractory mixtures. Lay and align bricks, blocks or tiles to build or repair structures or high temperature equipment, such as cupola, kilns, ovens or furnaces. Break or cut bricks, tiles or blocks to size, using trowel edge, hammer or power saw.
- (12.4%) **Plasterer & Stucco Mason:** Apply coats of plaster or stucco to walls, ceilings, or partitions of buildings using trowel, brush or spray gun. Create decorative texture in finish coat, using sand, pebbles or stones. Mold and install ornamental plaster pieces, panels and trim. Direct workers to mix plaster to desired consistency and to erect scaffolds.
- (12.4%) **Fish Hatchery Worker:** Grow fish and shellfish as cash crops or for release into freshwater or saltwater. Collect and record growth, production and environmental data. Conduct stock examinations in order to identify diseases or parasites, and take corrective action.
- (12.2%) **Fibreglass Worker:** Laminate layers of fibreglass on molds to form boat decks and hulls, bodies for golf carts, automobiles or other products. Mix catalysts into resins to saturate cloth and mats; spray chopped fibreglass, resins and catalysts onto prepared molds or dies. Repair or modify damaged or defective glass-fibre parts. Check completed products for conformance to specifications.
- (12.1%) **Plastic Molding Technician:** Set up, operate, tend plastic molding, casting or core making machines to mold or cast thermoplastic parts or products. Observe continuous operation of automatic machines to ensure that products meet specifications and to detect jams or malfunctions, making adjustments as necessary. Measure and visually inspect products for surface and dimension defects in order to ensure conformance to specifications, using precision measuring instruments. Remove finished or cured products from dies or molds, using hand tools, air hoses and other equipment; stamp identifying information on products when necessary.
- (11.9%) **Optometric & Ophthalmic Technician:** Test and measure eye function to assist with diagnosis and treatment of disease. Instruct patient in eye care and use of glasses or contact lens. Examine, test and measure patient's visual acuity, peripheral vision, depth perception, focus, ocular movement and colour as requested by physician. Apply drops to anesthetize, dilate or

### Careers which have a very low enjoyment percentage and suitability

- medicate eyes.
- (11.8%) **Salesperson for Securities and Commodities:** Buy and sell securities in investment and trading firms, and develop and implement financial plans for individuals, businesses and organizations. Analyse market conditions to determine optimum time to execute securities transactions, and review all transactions to ensure accuracy of information and that trades conform to regulations of governing agencies. Keep informed about political and economic trends that influence stock prices by reading corporate reports and calculating ratios to determine best prospects for profit on stock purchase, and to monitor client account.
  - (11.5%) **Building Site Cleaner:** Clean or prepare construction sites to eliminate possible hazards. Load, unload or identify building materials, machinery or tools, distributing them to the appropriate locations, according to project plans or specifications. Lubricate, clean or repair machinery, equipment or tools. Erect or dismantle scaffolding, shoring, braces, traffic barricades, ramps or other temporary structures. Dig ditches or trenches, backfill excavations or compact and level earth to grade specifications, using picks, shovels, pneumatic tampers or rakes.
  - (11.5%) **Forklift Operator:** Inspect product load and safely move it around the warehouse or facility. Move controls to drive gasoline- or electric-powered vehicles to transport materials between loading, processing and storage areas. Move levers or controls that operate lifting device to load, unload, transport or stack material. Perform routine maintenance on vehicles or auxiliary equipment.
  - (11.5%) **Salesperson for Corporate Training Services:** Sell corporate training services. Develop and contact prospective customers to present information and explain available services. Help determine customers' training needs and prepare proposals to sell services. Evaluate costs and revenue of agreements to determine continued profitability.
  - (11.3%) **Salesperson for Medical Equipment:** Sell medical equipment to doctors or hospitals.
  - (11.0%) **Weed Controller:** Landscape or maintain grounds of property using hands or power tools or equipment. Use hand tools (such as shovels, rakes, pruning saws, saws, hedge or bush trimmers or axes) or operate vehicles and powered equipment (such as mowers, tractors, twin-axle vehicles, snow blowers, chain saw, electric clippers, sod cutters and pruning saws) to mow, trim, plant, water, fertilize, dig, rake etc. Provide proper upkeep of sidewalks, driveways, parking lots, fountains, planters, burial sites or other grounds features. Plant or cultivate lawns or gardens, trim or pick flowers and clean flower beds. Mix and spray or spread fertilizers, herbicides or insecticides onto grass, shrubs or trees using hand or automatic sprayers or spreaders.
  - (10.9%) **Librarian:** Administer libraries and perform related library services. Select, acquire, catalogue, classify, circulate and maintain library materials. Plan and deliver client-centred programs and services, such as special services for corporate clients, storytelling for children, newsletters or programs for special groups. Plan and teach classes on topics such as information literacy, library instruction and technology use.
  - (10.9%) **Electrical Power Line Person:** Install or repair cables or wires used in electrical power or distribution systems. Erect poles and light or heavy duty transmission towers; string wire conductors and cables between poles and adjust tension. Open switches or attach grounding devices to remove electrical hazards from disturbed or fallen lines or to facilitate repairs. Identify defective devices.
  - (10.8%) **Parking Enforcement Officer:** Patrol assigned area such as public parking lot or section of city to issue tickets to overtime parking violators and illegally parked vehicles. Chalk tires of vehicle, record time and return at specific intervals. Report missing traffic signals or signs to superior at end of shift. Collect coins deposited in meters.
  - (10.6%) **University Law Teacher:** Teach courses pertaining to the application of physical laws and principles of engineering. Prepare course materials, such as syllabi, homework assignments and handouts. Prepare and deliver lectures to undergraduate or graduate students. Evaluate and grade students' class work, laboratory work, assignments and papers. Supervise undergraduate or graduate teaching, internship and research work.
  - (10.0%) **Bus Driver:** Drive vehicles over specified routes or to specified destinations, according to time schedule. Manage passengers for safety and good behaviour and manage emergency situations. Assist passengers, such as elderly or disabled individuals. Collect tickets or cash fares from passengers.
  - (9.7%) **Radiation Therapist:** Provide radiation therapy to patients as prescribed by a radiologist, according to established practices and standards. Duties include reviewing prescription and diagnosis; acting as liaison with physician and supportive care personnel; preparing equipment, such as immobilization, treatment and protection devices; and maintaining records, reports and files.
  - (9.7%) **Network Security Analyst:** Confer with users to discuss issues such as computer data access needs, security violations and programming changes. Document computer security and emergency measures policies, procedures and tests. Perform risk assessments and execute tests of data processing system to ensure functioning of data processing activities and security measures. Train users and promote security awareness to ensure system security and to improve server and network efficiency.
  - (9.6%) **Ambulance Driver:** Drive ambulances or assist ambulance drivers in transporting sick, injured or convalescent persons. Place patients on stretchers and load stretchers into ambulances, usually with assistance from other attendants. Accompany and assist emergency medical technicians on calls, and administer first aid. Remove and replace soiled linens or equipment, and replace supplies on ambulances. Report facts concerning accidents or emergencies to hospital personnel or law enforcement officials; shackle or restrain violent patients.
  - (9.6%) **Elevator Installer, Repairer:** Assemble, install, repair and maintain elevators, escalators, moving sidewalks and dumbwaiters. Disassemble defective units and repair or replace parts, such as locks, gears, cables and electric wiring. Read and interpret blueprints to determine the layout of system components, frameworks and foundations, and to select installation equipment. Test newly installed equipment to ensure that it meets specifications.
  - (9.5%) **Masseur:** Perform therapeutic massages of soft tissues and joints. Use complementary aids, such as infrared lamps and wet



### Careers which have a very low enjoyment percentage and suitability

- compresses to promote clients' recovery and relaxation. Confer with clients about their medical histories and problems with stress or pain to determine how massage will be most helpful. Propose client therapy plans.
- (9.3%) **Salesperson for Marketing Services:** Sell advertising services. Develop and contact prospective customers to present information and explain available services. Help determine customers' advertising needs, and prepare proposals to sell services. Evaluate costs and revenue of agreements to determine continued profitability.
- (9.3%) **Marketing Specialist (Focus on Product Definition):** Analyse a product to determine the optimal presentation that defines and differentiates it from others. Present a product in a manner that is attractive to buyers.
- (8.8%) **Marketing Research Interviewer:** Interview persons face-to-face or by phone, or conduct surveys by mail, following prescribed questionnaire. Explain purpose of interview and obtain consent to conduct interview; clarify misunderstandings with a view to obtaining more accurate information. Record responses and classify, as per the instructions. May analyse data obtained or write reports, detailing both quantitative and qualitative information.
- (8.2%) **Salesperson for Staffing and Outsourcing Services:** Sell staffing or outsourcing services. Develop and contact prospective customers to present information and explain available services. Help determine customers' staffing needs and prepare proposals to sell services. Evaluate costs and revenue of agreements to determine continued profitability.
- (6.9%) **Food Science Technician:** Perform standardized qualitative and quantitative tests to determine physical or chemical properties of food or beverage products. Provide assistance to food scientists or technologists in research and development, production technology or quality control. Record or compile test results or prepare graphs, charts or reports. Clean and sterilize laboratory equipment.
- (6.5%) **Wholesale and Retail Buyer:** Buy merchandise or commodities for resale to consumers at the wholesale or retail level, including both durable and nondurable goods. Confer with sales and purchasing personnel to obtain information about customer needs and preferences, as well as analyse sales records and trends to determine current or expected demand and minimum inventory required. Consult with store or merchandise managers about budget and goods to be purchased. Set or recommend mark-up rates, mark-down rates and selling prices for merchandise. Train purchasing or sales personnel.
- (6.4%) **Claims Examiner - Insurance:** Review settled insurance claims to determine that payments and settlements have been made in accordance with company practices and procedures. Report overpayments, underpayments and other irregularities. Confer with legal counsel on claims requiring litigation. Investigate, evaluate and settle claims to effect fair and prompt disposal of cases, and to contribute to a reduced loss ratio.
- (6.3%) **Express Delivery Clerk:** Examine contents and compare with records, such as manifests, invoices or orders, to verify accuracy of incoming or outgoing shipment. Prepare documents, such as work orders, bills of lading, or shipping orders, to route materials. Record shipment data, such as weight, charges, space availability, damages or discrepancies for reporting, accounting or recordkeeping purposes. Contact carrier representatives to make arrangements or to issue instructions for shipping and delivery of materials.
- (5.6%) **Die-Casting Technician:** Set up and operate presses and forging machines to perform hot or cold forging by flattening, straightening, bending, cutting, piercing or other operations to taper, shape or form metal. Read work orders or blueprints to determine specified tolerances and sequences of operations for machine setup. Measure and visually inspect products for surface and dimension defects in order to ensure conformance to specifications, using precision measuring instruments. Observe meters and gauges to verify and record temperatures, pressures and press-cycle times. Remove finished or cured products from dies or molds, using hand tools, air hoses and other equipment; stamp identifying information on products when necessary.
- (5.6%) **Farm Equipment Operator:** Drive and control farm equipment to till soil and to plant, cultivate and harvest crops. Attach farm implements such as ploughs, discs, sprayers or harvesters to tractors, using bolts and hand tools. Drive trucks to haul crops, supplies, tools or farm workers. Adjust, repair and service farm machinery, and notify supervisors when machinery malfunctions.
- (5.2%) **Gardener:** Operate vehicles and powered equipment, such as mowers, chain saws, electric clippers, sod cutters and pruning saws. Care for established lawns by mowing and edging. Prune or trim trees, shrubs or hedges. Gather and remove litter.
- (4.2%) **Electrocardiograph Technician:** Conduct tests on pulmonary or cardiovascular systems of patients for diagnostic purposes. Attach electrodes to the patients' chest, arms, and legs, connect electrodes to leads from the electrocardiogram (EKG) machine, and operate the EKG machine to obtain a reading. Monitor patient's blood pressure and heart rate using electrocardiogram (EKG) equipment. Monitor patient's comfort and safety during tests, alerting physicians to abnormalities or changes in patient responses.
- (3.5%) **Plastics Process Operative:** Operate the machinery that produces plastic products such as bottles, packaging cases or components for cars, aircraft and medical devices. Check and weigh raw plastic before feeding it into the molding machine. Check that machine settings are correct; start machine and stay alert for any indication of a problem. Record the amounts of materials used, number of items produced and any problems that have occurred. Check that products that come off the machine meet specifications, packing and labelling them and putting them in correct area for collection.
- (2.9%) **Salesperson for Plants:** Sell to the public in a retail setting, a wide variety of plants- related merchandise. Compute sales price of merchandise and prepare sales slip or sales contract. Greet customer and explain the plants based on the customer's needs.
- (2.6%) **Nuclear Medicine Technologist:** Administer radiopharmaceuticals or radiation to patient to detect or treat diseases, using radioisotope equipment, under direction of physician. Calculate, measure, prepare and record radiation dosage or radiopharmaceuticals, using computer and following physician's prescription and X-rays. Position radiation fields, radiation beams and patient to develop most effective treatment of patient's disease, using computer. Develop treatment procedures for

### Careers which have a very low enjoyment percentage and suitability

- nuclear medicine treatment programs.
- (1.5%) **Air Traffic Controller:** Issue landing and take-off authorizations or instructions, monitor or direct the movement of aircraft. Inform pilots about nearby planes or potentially hazardous conditions. Provide flight path changes or directions to emergency landing fields, for pilots travelling in bad weather or in emergency situations. Alert airport emergency services in cases of emergency or when aircraft are experiencing difficulties. Transfer control of departing flights to traffic control centres and accept control of arriving flights. Direct ground traffic, including taxiing aircraft, maintenance or baggage vehicles or airport workers. Interact with agencies and personnel regarding safety issues.
- (1.3%) **Medical Records Technician:** Compile, process and maintain medical records of hospital and clinic patients. Protect the security of medical records to ensure that confidentiality is maintained. Review records for completeness, accuracy. Retrieve patient medical records for physicians, technicians or other medical personnel.
- (0.6%) **Title Examiner:** Search lot books, geographic and general indices, and assessor's rolls, to compile lists of transactions pertaining to property. Read search request to ascertain type of title evidence required, and to obtain description of property and names of involved parties. Compare legal description of property with legal description contained in records and indices, to verify such factors as deed ownership. Confer with realtors, lending institution personnel, buyers, sellers, contractors, surveyors and courthouse personnel to obtain additional information. Prepare title commitment and final policy of title insurance, based on information compiled from title search, as well as closing statement, utilizing knowledge and expertise in real estate procedures.
- (0.4%) **Foreign Affairs & Trade Officer:** Provide policy advice on foreign affairs and trade issues to government ministers. Keep the government informed about international strategic, political, economic and trade issues. Advise on treaties and on matters of international law. Provide consular advice to members of the public.
- (0.2%) **Taxi Driver and Chauffeur:** Drive taxicab, limousine, company car, hearse, or privately owned vehicle to transport passengers. Assist passengers to enter and exit vehicle, assist with luggage, and hold umbrellas in wet weather. Collect and document fees, payments and deposits, determined by rental contracts or taximeter recordings. Maintain vehicle by performing such duties as regulating tire pressure and adding gasoline, oil, and water as well as vacuum, sweep, and clean interior, and wash and polish exterior of automobile.
- (0.0%) **Advertising Purchaser:** Purchase advertising on behalf of the company. Analyse the best advertising investments and negotiate with the suppliers.
- (0.0%) **Baker:** Mix and bake ingredients to produce breads, rolls, cookies, cakes, pies, pastries or other baked goods. Measure or weigh flour or other ingredients to prepare batters, doughs, fillings or icings. Roll, knead, cut or shape dough to form sweet rolls, pie crusts, tarts, cookies or other products. Check equipment to ensure that it meets health and safety regulations and perform maintenance or cleaning, as necessary.
- (0.0%) **Biology Specimen Technician:** Prepare various components of living organisms and tissues for experiments and examinations. Preserve various animal and plant specimens in either a dried manner or by embedding the various substances in plastic as instructional aides. Determine various stages of development of both plants and animals working with microscopic samples, as well as larger specimens. Clean, store, assemble, disassemble laboratory equipment. Biology specimen technicians are employed by hospitals, museums, laboratories, research and development facilities, agricultural and environmental agencies, as well as universities and even vet clinics and nurseries.
- (0.0%) **Brokerage Clerk (Stock or Commodities Broker):** Perform duties related to the purchase, sale or holding of securities. Write orders for stock or commodities purchases or sales, compute transfer taxes, verify stock transactions, accept and deliver securities, track stock price fluctuations, compute equity, distribute dividends and keep records of daily transactions and holdings. Correspond with customers and confer with co-workers to answer inquiries, discuss market fluctuations or resolve account problems. Schedule and coordinate transfer and delivery of security certificates between companies, departments and customers.
- (0.0%) **Butcher:** Cut, trim or prepare consumer-sized portions of meat for use or sale in retail establishments. Display, wrap, weigh, label and price cuts of meat. Estimate requirements and order or requisition meat supplies to maintain inventories, and receive, inspect and store meat upon delivery. Maintain premises hygienically. Serve customers and make recommendations.
- (0.0%) **Car Detailer:** Wash or otherwise clean vehicles, machinery and other equipment. Scrub, scrape or spray machine parts, equipment or vehicles, using scrapers, brushes, clothes, cleaners, disinfectants, insecticides, acid, abrasives, vacuums or hoses. Turn valves or handles on equipment to regulate pressure or flow of water, air, steam, or abrasives from sprayer nozzles. Lubricate machinery, vehicles or equipment or perform minor repairs or adjustments using hand tools.
- (0.0%) **Catering Specialist:** Organize and provide the catering required by the customer. Ensure the catering is provided according to the contract.
- (0.0%) **Chef:** Prepare salads, soups, fish, meats, vegetables, desserts or other foods. Instruct cooks and other workers in the preparation, cooking, garnishing or presentation of food. Monitor sanitation practices, to ensure conformance with standards and regulations. May plan menu items, order supplies. Keep records and accounts.
- (0.0%) **Cook:** Follow meal plans to cook according to instructions. Instruct other workers in helping to prepare and serve the food. Inspect and clean food preparation areas, such as equipment and work surfaces, or serving areas to ensure safe and sanitary food-handling practices. Ensure food is stored and cooked at correct temperature by regulating temperature of ovens, broilers, grills and roasters. Portion, arrange, and garnish food, and serve food to waiters or patrons.
- (0.0%) **Delivery Driver - Courier:** Travelling by motorcycle or automobile, pick up and deliver messages, documents, packages and other items, between offices or departments within an establishment, or directly to other business concerns. Plan and follow the

### Careers which have a very low enjoyment percentage and suitability

- most efficient routes for delivering goods. Unload and sort items collected along delivery routes. Receive messages or materials to be delivered and information on recipients such as names, addresses, telephone numbers and delivery instructions, communicated via telephone, two-way radio or in person. Load vehicles with listed goods, ensuring goods are loaded correctly and taking precautions with hazardous goods.
- (0.0%) **Dentist:** Examine teeth, gums and related tissues, using dental instruments, X-rays, or other diagnostic equipment, to evaluate dental health, diagnose diseases or abnormalities. Formulate plan of treatment for patient's teeth and mouth tissue. Design, make or fit prosthodontics appliances, such as space maintainers, bridges or dentures, or write fabrication instructions or prescriptions for denturists or dental technicians. Advise or instruct patients regarding preventive dental care, the causes and treatment of dental problems, or oral health care services.
- (0.0%) **Dietetic Technician:** Assist in the provision of food service and nutritional programs, under the supervision of a dietician. Obtain and evaluate dietary histories of individuals to plan nutritional programs. Plan menus or diets or guide individuals or families in food selection, preparation or menu planning, based upon nutritional needs and established guidelines. Observe patient food intake and report progress and dietary problems to dietician. Educate patients in nutritional principles.
- (0.0%) **Dietician:** Counsel individuals and groups on basic rules of good nutrition, healthy eating habits and nutrition monitoring to improve their quality of life. Consult with physicians and health-care personnel to determine nutritional needs and diet restrictions of patient or client. Monitor food service operations to ensure conformance to nutritional, safety, sanitation and quality standards. Organize, develop, analyse, test and prepare special meals such as low-fat, low-cholesterol meals.
- (0.0%) **Financial Examiner:** Investigate activities of institutions to enforce laws and regulations and to ensure legality of transactions and financial solvency. Review and analyse new, proposed, or revised regulations, policies, and procedures to determine their impact. Plan, supervise, and review work of assigned subordinates. Recommend actions to ensure compliance with laws and regulations, or to protect solvency of institutions.
- (0.0%) **Food R & D Technician:** Maintain instruments, equipment and work areas in an organized way and keep them in good operating condition. Order products and supplies for product testing. Weigh out formulas, make recipes and complete data entry. Record and compile test results, as well as prepare graphs, charts and reports. Plan and organize product testing and daily projects.
- (0.0%) **Food Service Worker:** Help to plan, direct or coordinate activities of an organization or department that serves food and beverages. Help to monitor compliance with health and fire regulations and monitor food preparation methods, portion sizes and garnishing.
- (0.0%) **Insurance Adjuster, Investigator:** Investigate, analyse and determine the extent of insurance company's liability concerning personal, casualty, or property loss or damages. Attempt to effect settlement with claimants. Calculate benefit payments and approve payment of claims within a certain monetary limit. Collect evidence to support contested claims in court.
- (0.0%) **Kitchen Helper:** Perform a variety of food preparation duties other than cooking. Clean and sanitize work areas, equipment, utensils, dishes, or silverware. Wash, peel, and cut various foods, such as fruits and vegetables, to prepare for cooking or serving. Prepare a variety of foods, such as meats, vegetables, desserts, according to customers' orders.
- (0.0%) **Marketing Specialist (Ad Testing-Focus Groups):** Test marketing presentations on groups of individuals to determine the attractiveness of the marketing presentation. Analyse the results of the feedback.
- (0.0%) **Orthodontist:** Examine, diagnose and treat dental malocclusions and oral cavity anomalies. Design and fabricate appliances to realign teeth and jaws to produce and maintain normal function and to improve appearance. Plan treatment and fit dental appliances for patients.
- (0.0%) **Paving Equipment Operator:** Operate equipment used for applying concrete, asphalt or other materials to road beds, parking lots, or airport runways and taxiways. Monitor machine operation and observe distribution of paving material to adjust machine settings or material flow. Drive machine onto truck trailer and drive truck to transport machine to and from job site. Clean, maintain and repair equipment, according to specifications using mechanics' hand tools, or reports malfunction to supervisor.
- (0.0%) **Prep Cook:** Substitute for or assist other cooks during emergencies or rush periods. Inspect and clean food preparation areas, such as equipment and work surfaces or serving areas, to ensure safe and sanitary food-handling practices. Ensure food is stored and cooked at correct temperature by regulating temperature of ovens, broilers, grills and roasters. Portion, arrange and garnish food, and serve food to waiters or patrons.
- (0.0%) **Refuse and Recyclable Material Collector:** Drive truck. Hoist device that raise refuse bin attached to rear of truck and dump contents into opening in enclosed truck body.
- (0.0%) **Salesperson for Property Management and Rental:** Display and explain features of property to client and discuss conditions and terms of lease, as well as answers client's questions regarding work under construction, financing, maintenance, repairs and appraisals. Prepare real estate contracts, such as closing statements, deeds, leases and mortgages, and negotiate loans on property, oversee signing of real estate documents, disburse funds and coordinate closing activities. Plan and organize sales promotion programs and materials, including newspaper advertisements and real estate promotional booklets.