

**BENCHMARK OCCUPATIONS COVERED BY 2020 OWS
IN ALL AGRICULTURAL AND NON-AGRICULTURAL INDUSTRIES**

PSOC 2012	OCCUPATION	FUNCTIONS/RESPONSIBILITIES
4311	Accounting and Bookkeeping Clerks	Compute, classify and record numerical data to keep financial records complete. They perform any combination of routine calculating, posting and verifying duties to obtain primary financial data for use in maintaining accounting records.
9400*	Unskilled Workers except Janitors, Messengers and Freight Handlers	Perform a variety of low-skilled and routine manual tasks, requiring a minimum of training, little or no previous experience and mainly physical effort.

* OWS Code.

Note: PSOC refers to Philippine Standard Occupational Classification.

LIST OF OCCUPATIONS COVERED BY 2020 OWS IN CROP AND ANIMAL PRODUCTION, HUNTING AND RELATED SERVICE ACTIVITIES; FORESTRY AND LOGGING (A01/A02)

PSOC 2012	OCCUPATION	FUNCTIONS/RESPONSIBILITIES
1311	Farm/Plantation/Forest Supervisors (<i>Agricultural and Forestry Production Managers</i>)	Plan, direct, and coordinate production in large scale agricultural, horticultural and forestry operations such as plantations, large ranches, collective farms and agricultural co-operatives to grow and harvest crops, and breed and raise livestock.
611	Market Gardeners and Crop Growers (<i>Rice; Corn Vegetable, Legumes and Root Crops Farmers; Sugarcane. Coconut; Other Field Crop Farmers; Tree and Shrub Crop Growers; and Gardeners, Horticultural and Nursery Growers</i>)	Plan, organize and perform operations to grow and harvest field crops, to grow fruit and other tree and shrub crops, to grow garden vegetables and medicinal and other plants, and to produce horticultural and horticultural nurseries products, for sale or delivery on a regular basis to wholesale buyers, marketing organizations or at markets.
621	Forestry and Related Workers (<i>Examples: Forest Rangers; Charcoal Maker; Firewood Gatherer; and Rattan Gatherer</i>)	Plan, organize and perform operations to cultivate, conserve and exploit natural and plantation forests.
6212	Concessionaires And Loggers (<i>Examples: Lumber Grader; Lumberjacks; Log Marker; Log Scaler; Logger; Rafter; Tree Feller; Tree Marker; and Timber Inspector</i>)	Plan and manage the necessary operations to log trees for sale or delivery of forest products to wholesale buyers, marketing organizations or at markets at a sustainable basis. Their tasks include: marking merchantable trees to be felled and estimating volume of timber; marking trees to be cut; trimming, topping and felling trees and sawing them into logs; scaling and rescaling of felled trees; cutting trees into logs; cutting logs into timber; loading and unloading out timbers, other semi-finished or finished forest products; replanting and replacing cut trees; processing logs into timber, plywood, veneer, pulp or paper and other forest products; and establishing and maintaining processing plants

Note: PSOC refers to Philippine Standard Occupational Classification.

LIST OF OCCUPATIONS COVERED BY 2020 OWS IN FISHING AND AQUACULTURE (A03)

PSOC 2012	OCCUPATION	FUNCTIONS/RESPONSIBILITIES
6220*	Aqua Farm Operator/ Harvester/Operator (<i>Examples: Aqua Culture Farmer; Seaweeds Producers; Clams and Oysters And Mussels Producers</i>)	Breed and raise, harvest and catch, and hunt and trap crustaceans and mollusks, for sale or delivery on a regular basis to wholesale buyers, marketing organizations or at markets. Tasks usually include: breeding, raising and cultivating, mussels, oysters, seaweeds, clams and other forms of aquatic life
6226	Inland and Coastal Waters Fishery Workers (<i>Example of product harvests: tilapia, mudfish, carp, bangus, catfish, shrimps, etc.</i>)	Catch fish or gather other forms of aquatic life in inland or coastal waters, for sale or delivery on a regular basis to wholesale buyers, marketing organizations or at markets.
6227	Deep-Sea Fishery Workers (<i>Example of products harvests: sardinella, scad, tuna, sardines, mackerel etc.</i>)	Catch deep-sea fish, for sale or delivery to wholesale buyers, marketing organizations or at markets.

* OWS Code.

Note: PSOC refers to Philippine Standard Occupational Classification.

LIST OF OCCUPATIONS COVERED BY 2020 OWS IN MINING OF COAL AND LIGNITE; EXTRACTION OF CRUDE PETROLEUM AND NATURAL GAS; AND OTHER MINING AND QUARRYING (B05/B06/B08)

PSOC 2012	OCCUPATION	FUNCTIONS/RESPONSIBILITIES
3121	Mining Supervisors	Oversee mining and quarrying operations and directly supervise and coordinate the activities of miners working in underground and surface mines and quarries.
2114	Geologists	Conduct research; improve or develop concepts, theories and operational methods, or apply scientific knowledge relating to geology and geophysics in such fields as oil, gas and mineral exploration and extraction, water conservation, civil engineering, telecommunications and navigation
2146	Mining Engineers, Metallurgists and Related Professionals	Conduct research on and design and develop and maintain commercial-scale methods of extracting metals from their ores, or minerals, water, oil or gas from the earth and of developing new alloys, ceramic and other materials, or study and advise on mining or metallurgical aspects of particular materials, products or processes.
3117	Mining and Metallurgical Technicians	Perform technical tasks to assist in research and experiments related to metallurgy, in improving methods of extracting solid minerals, oil and gas, and in the design, construction, operation, maintenance and repair of mines and mine installations, of systems for transporting and storing oil and natural gas, and for extraction of metals from ores.
8111	Miners and Quarriers	Operate plant, machinery and hand tools to extract rock, minerals and non-metallic deposits from underground and surface mines and quarries.
8112	Mineral and Stone Processing Plant Operators	Operate and monitor machinery and equipment for processing rocks, minerals and stone to recover refined products for immediate use or further processing.
8113	Well Drillers and Borers And Related Workers	Assemble and operate drilling machinery and related equipment to sink wells, extract ore, liquids and gases or for a variety of other purposes.

Note: PSOC refers to Philippine Standard Occupational Classification.

LIST OF OCCUPATIONS COVERED BY 2020 OWS IN MINING OF METAL ORES (B07)

PSOC 2012	OCCUPATION	FUNCTIONS/RESPONSIBILITIES
3121	Mining Supervisors	Oversee mining and quarrying operations and directly supervise and coordinate the activities of miners working in underground and surface mines and quarries.
2114	Geologists	Conduct research; improve or develop concepts, theories and operational methods, or apply scientific knowledge relating to geology and geophysics in such fields as oil, gas and mineral exploration and extraction, water conservation, civil engineering, telecommunications and navigation.
2146	Mining Engineers, Metallurgists and Related Professionals	Conduct research on and design and develop and maintain commercial-scale methods of extracting metals from their ores, or minerals, water, oil or gas from the earth and of developing new alloys, ceramic and other materials, or study and advise on mining or metallurgical aspects of particular materials, products or processes.
3117	Mining and Metallurgical Technicians	Perform technical tasks to assist in research and experiments related to metallurgy, in improving methods of extracting solid minerals, oil and gas, and in the design, construction, operation, maintenance and repair of mines and mine installations, of systems for transporting and storing oil and natural gas, and for extraction of metals from ores.
8111	Miners and Quarriers	Operate plant, machinery and hand tools to extract rock, minerals and non-metallic deposits from underground and surface mines and quarries.
7542	Shotfirers and Blasters (Examples: Blaster, Mine Shot Firer; Powder Monkey; Powder Man; and Quarry Shot Firer)	Position, assemble, and detonate explosives at mining, quarrying and demolition sites.
8112	Mineral and Stone Processing Plant Operators	Operate and monitor machinery and equipment for processing rocks, minerals and stone to recover refined products for immediate use or further processing.

Note: PSOC refers to Philippine Standard Occupational Classification.

LIST OF OCCUPATIONS COVERED BY 2020 OWS IN MANUFACTURE OF FOOD PRODUCTS AND BEVERAGES (C10/C11)

PSOC 2012	OCCUPATION	FUNCTIONS/RESPONSIBILITIES
3122	Manufacturing Supervisors	Coordinate and supervise the activities of process control technicians, machine operators, assemblers, and other manufacturing laborers.
2145	Chemical Engineers (<i>Food technologists</i>)	Conduct research and develop, advise on and direct commercial-scale chemical processes and production of various substances and items such as food and drink products.
3116	Chemical Engineering Technicians	Perform technical tasks to aid in chemical engineering research on food and beverage products.
3257	Environmental and Occupational Health Inspectors and Associates (<i>Quality assurance/control inspectors</i>)	Inspect areas of production, processing, transport, handling, storage and sale of products to ensure conformity with government and other rules, regulations and standards.
4322	Production Clerks	Compute quantities of materials required at specified dates for manufacturing, construction and similar production programmes; and prepare and check production operation schedules.
751	Food Processing and Related Trades Workers (<i>Example: Butcher, Baker, Butter and Dairy Product Maker, Fruit and Vegetable Preserver; Food and Beverage Taster; and Tobacco Preparers</i>)	Slaughter animals, treat and prepare them and related food items for human and animal consumptions, make various kinds of bread, cakes and other flour products, process and preserve fruit, vegetables and related foods, taste and grade various food products and beverages, or prepare tobacco and make tobacco products.
8160	Food and Related Products Machine Operators	Set, operate and attend machinery used to slaughter animals, trim meat from carcasses; bake, freeze, heat, crush, mix, blend and otherwise process foodstuffs, beverages and tobacco leaves.

Note: PSOC refers to Philippine Standard Occupational Classification.

LIST OF OCCUPATIONS COVERED BY 2020 OWS IN MANUFACTURE OF TEXTILES (C13)

PSOC 2012	OCCUPATION	FUNCTIONS/RESPONSIBILITIES
3122	Manufacturing Supervisors	Coordinate and supervise the activities of process control technicians, machine operators, assemblers, and other manufacturing laborers.
3257	Environmental and Occupational Health Inspectors and Associates (<i>Quality assurance/control inspectors</i>)	Inspect areas of production, processing, transport, handling, storage and sale of products to ensure conformity with government and other rules, regulations and standards.
7318	Handicraft Workers in Textile, Leather and Related Materials	Spinning and winding yarn by hand; drawing warp threads into loom by hand; grading and classifying natural textile fibers; washing wool fibers; cleaning and fluffing textile fibers; and forming fibers into sliver, combing them, combining sliver into sliver laps or forming sliver into rove.
8151	Fibre Preparing, Spinning and Winding Machine Operators	Operate and monitor machines which prepare fibers, and spin, double, twist and wind yarn and thread from natural textile fibers. They twist two or more strands of yarn to prepare single stronger, smoother, uniform and heavier strands and treat textiles to make them stiff and water resistant.
8152	Weaving and Knitting Machine Operators	Set up, operate and monitor weaving and knitting machines which process yarn or thread into woven, non-woven and knitted products such as cloth, lace, carpets, rope, industrial fabric, hosiery and knitted garments or to quilt and embroider fabric.
8154	Bleaching, Dyeing and Fabric Cleaning Machine Operators	Operate and monitor machines that bleach, shrink, dye, and otherwise treat fibers, yarn or cloth.

Note: PSOC refers to Philippine Standard Occupational Classification.

LIST OF OCCUPATIONS COVERED BY 2020 OWS IN MANUFACTURE OF WEARING APPAREL (C14)

PSOC 2012	OCCUPATION	FUNCTIONS/RESPONSIBILITIES
3122	Manufacturing Supervisors	Coordinate and supervise the activities of process control technicians, machine operators, assemblers, and other manufacturing laborers.
3257	Environmental and Occupational Health Inspectors and Associates (<i>Quality assurance/control inspectors</i>)	Inspect areas of production, processing, transport, handling, storage and sale of products to ensure conformity with government and other rules, regulations and standards.
4322	Production Clerks	Compute quantities of materials required at specified dates for manufacturing, construction and similar production programmes; and prepare and check production operation schedules.
7531	Tailors, Dressmakers, Furriers and Hatters	Fabricate, fit, alter and repair tailored or hand-made clothing; They produce made-to-measure clothing such as suits, overcoats, and dresses from textile fabrics, light leather, fur and other material, or make hats or wigs according to customer's and clothing manufacturer's specifications.
7532	Garment and Related Patternmakers and Cutters	Create precision master patterns for production of garments, other textile, and leather or fur products. They mark, cut, shape and trim textile, light leather and other materials according to blueprints or specifications in the manufacture of garments, hats and caps, gloves and miscellaneous products.
7533	Sewing, Embroidery and Related Workers	Sew together, repair, renovate and decorate garments, gloves and other products of textile, fur, light leather and other materials and fabricate tents sails, awnings and tarpaulins. They work mainly by hand using a needle and thread but may perform some tasks using a sewing machine.
8153	Sewing Machine Operators	Operate and monitor sewing machines to make, repair, darn and renovate textile, fur, synthetic or leather garments or embroider ornamental designs on garments or other materials. They operate button hole making and eyelet holing machines to cut holes, stitch around holes, stitch buttons and fix eyelets to garments.

Note: PSOC refers to Philippine Standard Occupational Classification.

LIST OF OCCUPATIONS COVERED BY 2020 OWS IN MANUFACTURE OF LEATHER AND RELATED PRODUCTS (C15)

PSOC 2012	OCCUPATION	FUNCTIONS/RESPONSIBILITIES
3122	Manufacturing Supervisors	Coordinate and supervise the activities of process control technicians, machine operators, assemblers, and other manufacturing laborers.
3257	Environmental and Occupational Health Inspectors and Associates (<i>Quality assurance/control inspectors</i>)	Inspect areas of production, processing, transport, handling, storage and sale of products to ensure conformity with government and other rules, regulations and standards.
4322	Production Clerks	Compute quantities of materials required at specified dates for manufacturing, construction and similar production programmes; and prepare and check production operation schedules.
7535	Pelt Dressers, Tanners and Fellmongers	Trim, scrape, clean, tan, buff and dye animal hides, pelts or skins to produce leather stock and finished furs for making garments and other products.
7536	Shoemakers and Related Workers (<i>Examples: Leather Goods Assembler/Makers; Pattern Maker; Saddlers; Shoe Cutter; Shoe Finisher; Shoe Sewer; and Shoes and Bag Repairer</i>)	Make, modify and repair standard, custom or orthopedic footwear and natural or synthetic leather articles, such as luggage, handbags and belts , (except for leather garments, hats and gloves), or participate in the manufacture of shoes and related goods.
8155	Fur and Leather Preparing Machine Operators	Operate and monitor various machines that prepare leather or treat fur or wool-bearing pelts.
8156	Shoe and Bag Making and Related Machine Operators	Operate and monitor machines which produce and repair standard or special footwear, handbags and other accessories, mainly made of leather.

Note: PSOC refers to Philippine Standard Occupational Classification.

LIST OF OCCUPATIONS COVERED BY 2020 OWS IN MANUFACTURE OF PRODUCTS OF WOOD, CORK, STRAW AND PLAITING MATERIALS (C162)

PSOC 2012	OCCUPATION	FUNCTIONS/RESPONSIBILITIES
3122	Manufacturing Supervisors	Coordinate and supervise the activities of process control technicians, machine operators, assemblers, and other manufacturing laborers.
4322	Production Clerks	Compute quantities of materials required at specified dates for manufacturing, construction and similar production programmes; and prepare and check production operation schedules.
7521	Wood Treaters	Operate and tend wood treatment processing equipment and machines to remove bark from logs, produce wood chips, season, preserve and treat wood, and produce waferboards, particleboards, hardboards, insulation boards, plywood, veneers and similar wood products.
7523	Woodworking Machine Tool Setters and Operators	Set-up or operate and monitor automatic or semi-automatic woodworking machines, such as precision sawing, shaping, planning, boring, turning and woodcarving machines to fabricate or repair wooden parts for furniture, fixtures and other wooden products.
8172	Wood Processing Plant Operators	Monitor, operate, and control automated lumber mill equipment for sawing timber logs into rough lumber, cutting veneer, making plywood and particle board, and otherwise preparing wood for further use.
8219	Assemblers Not Elsewhere Classified (<i>Wood products assemblers</i>)	Assemble, according to strictly laid down procedures various products that do not include electronic, electrical, or mechanical components.

Note: PSOC refers to Philippine Standard Occupational Classification.

LIST OF OCCUPATIONS COVERED BY 2020 OWS IN MANUFACTURE OF PAPER AND PAPER PRODUCTS (C17)

PSOC 2012	OCCUPATION	FUNCTIONS/RESPONSIBILITIES
3122	Manufacturing Supervisors	Coordinate and supervise the activities of process control technicians, machine operators, assemblers, and other manufacturing laborers.
2144	Mechanical Engineers	Conduct research; advise on, design, and direct production of machines, aircraft, ships, machinery and industrial plant, equipment and systems; advise on and direct their functioning, maintenance and repairs.
3115	Mechanical Engineering Technicians	Perform technical tasks to aid in mechanical engineering research, and in the design, manufacture, assembly, construction, operation, maintenance and repair of machines, components and mechanical equipment.
4322	Production Clerks	Compute quantities of materials required at specified dates for manufacturing, construction and similar production programmes; and prepare and check production operation schedules.
8143	Paper Products Machine Operators	Paper products machine operators operate and monitor machines which produce boxes, envelopes, bags and other goods from paper, paperboard, cardboard and similar materials.
8171	Pulp and Papermaking Plant Operators	Operate and monitor multi-function process control machinery and processing equipment to control the processing of wood, scrap pulp and other cellulose materials in the production of pulp.
8219	Assemblers Not Elsewhere Classified (Paperboard products assemblers)	Assemble, according to strictly laid down procedures various products that do not include electronic, electrical, or mechanical components.

Note: PSOC refers to Philippine Standard Occupational Classification.

LIST OF OCCUPATIONS COVERED BY 2020 OWS IN PRINTING AND REPRODUCTION OF RECORDED MEDIA (C18)

PSOC 2012	OCCUPATION	FUNCTIONS/RESPONSIBILITIES
3122	Manufacturing Supervisors	Coordinate and supervise the activities of process control technicians, machine operators, assemblers, and other manufacturing laborers.
2144	Mechanical Engineers	Conduct research; advise on, design, and direct production of machines, aircraft, ships, machinery and industrial plant, equipment and systems; advise on and direct their functioning, maintenance and repairs.
4413	Coding, Proof-Reading and Related Clerks	Convert information into codes; verify and correct proofs; and perform a number of miscellaneous clerical duties.
7321	Pre-Press Technicians (<i>Examples: Compositors, Typesetters, Stereotypers, Electrotypers</i>)	Proof, format, set and compose text and graphics into a form suitable for use in various printing processes and representation in other visual media. Operating plate making equipment to reproduce images from film to printing plates, digital output devices and presses;
7316	Sign Writers, Decorative Painters, Engravers and Etchers	Decorate articles made of wood, metal, textiles, glass, ceramics and other materials. They plan, lay out and paint letters, figures, monograms and designs to make signs and engrave and etch ornamental and floral designs on glass and other articles.
7323	Print Finishing and Binding Workers	Bind books and other publications, and finish printed products by hand or machine.
7322	Printers	Set up and operate digital, letterpress, lithographic, flexographic, gravure, newspaper and other printing presses.

Note: PSOC refers to Philippine Standard Occupational Classification.

LIST OF OCCUPATIONS COVERED BY 2020 OWS IN MANUFACTURE OF COKE AND REFINED PETROLEUM PRODUCTS (C19)

PSOC 2012	OCCUPATION	FUNCTIONS/RESPONSIBILITIES
3122	Manufacturing Supervisors	Coordinate and supervise the activities of process control technicians, machine operators, assemblers, and other manufacturing laborers.
2145	Chemical Engineers	Conduct research and develop, advise on and direct commercial-scale chemical processes and production of various substances and items such as crude oil, petroleum derivatives, food and drink products, medicines, or synthetic materials. They direct maintenance and repair of chemical plant and equipment and study and advise on chemical aspects of particular materials, products or processes.
3116	Chemical Engineering Technicians	Perform technical tasks to aid in chemical engineering research, and in the design, manufacture, construction, operation, maintenance and repair of chemical plant.
4322	Production Clerks	Compute quantities of materials required at specified dates for manufacturing, construction and similar production programmes; and prepare and check production operation schedules.
7233	Industrial Machinery Mechanics and Repairers	Install, examine, service and repair engines, agricultural and industrial machinery and mechanical equipment, except motor vehicle, aircraft and electric motors.
3133	Chemical Processing Plant Controllers	Operate and monitor chemical plants and adjust and maintain, processing units and equipment which distil, filter, separate, heat or refine chemicals.
3134	Petroleum and Natural Gas Refining Plant Operators	Operate and monitor plants and adjust and maintain processing units and equipment which refine, distil and treat petroleum, petroleum-based products and by-products, or natural gas.

Note: PSOC refers to Philippine Standard Occupational Classification.

LIST OF OCCUPATIONS COVERED BY 2020 OWS IN MANUFACTURE OF CHEMICALS AND CHEMICAL PRODUCTS (C20)

PSOC 2012	OCCUPATION	FUNCTIONS/RESPONSIBILITIES
3122	Manufacturing Supervisors	Coordinate and supervise the activities of process control technicians, machine operators, assemblers, and other manufacturing laborers.
2145	Chemical Engineers	Conduct research and develop, advise on and direct commercial-scale chemical processes and production of various substances and items such as crude oil, petroleum derivatives, food and drink products, medicines, or synthetic materials. They direct maintenance and repair of chemical plant and equipment and study and advise on chemical aspects of particular materials, products or processes.
3116	Chemical Engineering Technicians	Perform technical tasks to aid in chemical engineering research, and in the design, manufacture, construction, operation, maintenance and repair of chemical plant.
3133	Chemical Processing Plant Controllers	Operate and monitor chemical plants and adjust and maintain, processing units and equipment which distil, filter, separate, heat or refine chemicals.
4322	Production Clerks	Compute quantities of materials required at specified dates for manufacturing, construction and similar production programmes; and prepare and check production operation schedules.

Note: PSOC refers to Philippine Standard Occupational Classification.

LIST OF OCCUPATIONS COVERED BY 2020 OWS IN MANUFACTURE OF BASIC PHARMACEUTICAL PRODUCTS AND PHARMACEUTICAL PREPARATION (C21)

PSOC 2012	OCCUPATION	FUNCTIONS/RESPONSIBILITIES
3122	Manufacturing Supervisors	Coordinate and supervise the activities of process control technicians, machine operators, assemblers, and other manufacturing laborers.
2122	Biostatistician	Conduct research, improve or develop mathematical and other aspects of statistical concepts, theories and operational methods and techniques, and advise on or engage in their practical application, in such fields as medicine , as well as in other areas of natural, social or life sciences.
2113	Chemists	Conduct research, improve or develop concepts, theories and operational methods, or apply scientific knowledge relating to chemistry, to develop new knowledge or products and for quality and process control.
2145	Chemical Engineers	Conduct research and develop, advise on and direct commercial-scale chemical processes and production of various substances and items such as crude oil, petroleum derivatives, food and drink products, medicines, or synthetic materials. They direct maintenance and repair of chemical plant and equipment and study and advise on chemical aspects of particular materials, products or processes.
3116	Chemical Engineering Technicians	Perform technical tasks to aid in chemical engineering research, and in the design, manufacture, construction, operation, maintenance and repair of chemical plant.
4322	Production Clerks	Compute quantities of materials required at specified dates for manufacturing, construction and similar production programmes; and prepare and check production operation schedules.
8131	Chemical Products Plant and Machine Operators	Monitor and operate units and machinery to blend, mix, process and package a wide range of chemical products.

Note: PSOC refers to Philippine Standard Occupational Classification.

LIST OF OCCUPATIONS COVERED BY 2020 OWS IN MANUFACTURE OF RUBBER PRODUCTS (C221)

PSOC 2012	OCCUPATION	FUNCTIONS/RESPONSIBILITIES
3122	Manufacturing Supervisors	Coordinate and supervise the activities of process control technicians, machine operators, assemblers, and other manufacturing laborers.
2144	Mechanical Engineers	Conduct research; advise on, design, and direct production of machines, aircraft, ships, machinery and industrial plant, equipment and systems; advise on and direct their functioning, maintenance and repair; or study and advise on mechanical aspects of particular materials, products or processes.
2145	Chemical Engineers	Conduct research and develop, advise on and direct commercial-scale chemical processes and production of various substances and items such as crude oil, petroleum derivatives, food and drink products, medicines, or synthetic materials. They direct maintenance and repair of chemical plant and equipment and study and advise on chemical aspects of particular materials, products or processes.
3116	Chemical Engineering Technicians	Perform technical tasks to aid in chemical engineering research, and in the design, manufacture, construction, operation, maintenance and repair of chemical plant.
3257	Environmental and Occupational Health Inspectors and Associates (<i>Quality assurance/control inspectors</i>)	Inspect areas of production, processing, transport, handling, storage and sale of products to ensure conformity with government and other rules, regulations and standards.
4322	Production Clerks	Compute quantities of materials required at specified dates for manufacturing, construction and similar production programmes; and prepare and check production operation schedules.
8141	Rubber Products Machine Operators	Operate and monitor machines which knead and blend rubber and rubber compounds, and produce various components and products from natural and synthetic rubber, such as molded footwear, domestic articles, insulating materials, industrial accessories, or tires.

Note: PSOC refers to Philippine Standard Occupational Classification.

LIST OF OCCUPATIONS COVERED BY 2020 OWS IN MANUFACTURE OF PLASTIC PRODUCTS (C222)

PSOC 2012	OCCUPATION	FUNCTIONS/RESPONSIBILITIES
3122	Manufacturing Supervisors	Coordinate and supervise the activities of process control technicians, machine operators, assemblers, and other manufacturing laborers.
2144	Mechanical Engineers	Conduct research; advise on, design, and direct production of machines, aircraft, ships, machinery and industrial plant, equipment and systems; advise on and direct their functioning, maintenance and repair; or study and advise on mechanical aspects of particular materials, products or processes.
2145	Chemical Engineers	Conduct research and develop, advise on and direct commercial-scale chemical processes and production of various substances and items such as crude oil, petroleum derivatives, food and drink products, medicines, or synthetic materials.
3116	Chemical Engineering Technicians	Perform technical tasks to aid in chemical engineering research, and in the design, manufacture, construction, operation, maintenance and repair of chemical plant.
3257	Environmental and Occupational Health Inspectors and Associates (<i>Quality assurance/control inspectors</i>)	Inspect areas of production, processing, transport, handling, storage and sale of products to ensure conformity with government and other rules, regulations and standards.
4322	Production Clerks	Compute quantities of materials required at specified dates for manufacturing, construction and similar production programmes; and prepare and check production operation schedules.
8142	Plastic Products Machine Operators	Operate and monitor machines which knead and blend compounds to obtain plastic materials and which make various plastic components and articles.

Note: PSOC refers to Philippine Standard Occupational Classification.

LIST OF OCCUPATIONS COVERED BY 2020 OWS IN MANUFACTURE OF OTHER NON-METALLIC MINERAL PRODUCTS (C23)

PSOC 2012	OCCUPATION	FUNCTIONS/RESPONSIBILITIES
3122	Manufacturing Supervisors	Coordinate and supervise the activities of process control technicians, machine operators, assemblers, and other manufacturing laborers.
2144	Mechanical Engineers	Conduct research; advise on, design, and direct production of machines, aircraft, ships, machinery and industrial plant, equipment and systems; advise on and direct their functioning, maintenance and repair; or study and advise on mechanical aspects of particular materials, products or processes.
3257	Environmental and Occupational Health Inspectors and Associates (<i>Quality assurance/control inspectors</i>)	Inspect areas of production, processing, transport, handling, storage and sale of products to ensure conformity with government and other rules, regulations and standards.
4322	Production Clerks	Compute quantities of materials required at specified dates for manufacturing, construction and similar production programmes; and prepare and check production operation schedules.
7314	Potters and Related Workers	Prepare pottery, porcelain ware, sanitary ware, bricks, tiles and abrasive wheels by hand or by machine.
7315	Glass Makers, Cutters, Grinders and Finishers	Glass makers, cutters, grinders and finishers blow, mold, press, cut, trim, grind and polish glass, shape molten glass according to patterns.
8181	Glass And Ceramics Plant Operators	Operate and monitor kilns, furnaces and other machinery and equipment used in the manufacture of glass, ceramics, porcelain, tiles or bricks.
8114	Cement, Stone and Other Mineral Products Machine Operators	Operate and monitor machines for manufacturing and finishing precast concrete, bitumen, and stone products, and making cast stone for building purposes.

Note: PSOC refers to Philippine Standard Occupational Classification.

LIST OF OCCUPATIONS COVERED BY 2020 OWS IN MANUFACTURE OF BASIC METALS (C24)

PSOC 2012	OCCUPATION	FUNCTIONS/RESPONSIBILITIES
3122	Manufacturing Supervisors	Coordinate and supervise the activities of process control technicians, machine operators, assemblers, and other manufacturing laborers.
4322	Production Clerks	Compute quantities of materials required at specified dates for manufacturing, construction and similar production programmes; and prepare and check production operation schedules.
7211	Metal Molders and Core Makers	Make molds and cores for casting metal.
7213	Sheet Metal Workers	Make, install and repair articles and parts of articles made out of sheet metal such as sheet steel, copper, tin, brass, aluminum, zinc or galvanized iron.
8121	Metal Processing Plant Operators	Operate, monitor, adjust and maintain, single process machinery and equipment to process and convert mineral ores and refine, harden, roll and extrude metals.

Note: PSOC refers to Philippine Standard Occupational Classification.

LIST OF OCCUPATIONS COVERED BY 2020 OWS IN MANUFACTURE OF FABRICATED METAL PRODUCTS EXCEPT MACHINERY AND EQUIPMENT (C25)

PSOC 2012	OCCUPATION	FUNCTIONS/RESPONSIBILITIES
3122	Manufacturing Supervisors	Coordinate and supervise the activities of process control technicians, machine operators, assemblers, and other manufacturing laborers.
3257	Environmental and Occupational Health Inspectors and Associates (<i>Quality assurance/control inspectors</i>)	Inspect areas of production, processing, transport, handling, storage and sale of products to ensure conformity with government and other rules, regulations and standards.
7212	Welders and Flame Cutters	Weld and cut metal parts using gas flame, electric arc and other sources of heat to melt and cut, or to melt and fuse metal.
7214	Structural Metal Preparers and Erectors	Assemble, erect and dismantle structural metal frames of buildings and other structures.
7221	Blacksmiths, Hammersmiths and Forging Press Workers	Hammer and forge bars, rods, ingots and plates of iron, steel or other metals, and draw wire to make and repair various kinds of tools, metal articles, pieces of equipment, and agricultural and related implements.
7223	Metal Working Machine Tool Setters and Operators	Set and/or operate, various machine tools working to fine tolerances.

Note: PSOC refers to Philippine Standard Occupational Classification.

LIST OF OCCUPATIONS COVERED BY 2020 OWS IN MANUFACTURE OF COMPUTER, ELECTRONIC AND OPTICAL PRODUCTS (C26)

PSOC 2012	OCCUPATION	FUNCTIONS/RESPONSIBILITIES
3122	Manufacturing Supervisors	Coordinate and supervise the activities of process control technicians, machine operators, assemblers, and other manufacturing laborers.
2152	Electronics Engineers	Conduct research on, design, and direct the construction functioning, maintenance and repair of electronic systems and study and advise on technological aspects of electronic engineering materials, products or processes.
3114	Electronics Engineering Technicians	Perform technical tasks to aid in electronic research, and in the design, manufacture, assembly, construction, operation, maintenance and repair of electronic equipment.
3257	Environmental and Occupational Health Inspectors and Associates (<i>Quality assurance/control inspectors</i>)	Inspect areas of production, processing, transport, handling, storage and sale of products to ensure conformity with government and other rules, regulations and standards.
4322	Production Clerks	Compute quantities of materials required at specified dates for manufacturing, construction and similar production programmes; and prepare and check production operation schedules.
7422	Information and Communications Technology Installers And Servicers (<i>Electronics/computer equipment fitters</i>)	Install, repair and maintain telecommunications equipment, data transmission equipment, cables, antennae and conduits and repair, fit and maintain computers. Task include fitting and adjusting computer hardware.
8212	Electrical and Electronic Equipment Assemblers	Assemble or modify, according to strictly laid down procedures, components of electrical, electro-mechanical and electronic equipment.

Note: PSOC refers to Philippine Standard Occupational Classification.

LIST OF OCCUPATIONS COVERED BY 2020 OWS IN MANUFACTURE OF ELECTRICAL EQUIPMENT (C27)

PSOC 2012	OCCUPATION	FUNCTIONS/RESPONSIBILITIES
3122	Manufacturing Supervisors	Coordinate and supervise the activities of process control technicians, machine operators, assemblers, and other manufacturing laborers.
2151	Electrical Engineers	Conduct research and advise on, design, and direct the construction and operation of electrical systems, components, motors and equipment, and advise on and direct their functioning, maintenance and repair, or study and advise on technological aspects of electrical engineering materials, products and processes.
3113	Electrical Engineering Technicians	Perform technical tasks to aid in electrical engineering research, and in the design, manufacture, assembly, construction, operation, maintenance and repair of electrical equipment, facilities and distribution systems.
3257	Environmental and Occupational Health Inspectors and Associates (<i>Quality assurance/control inspectors</i>)	Inspect areas of production, processing, transport, handling, storage and sale of products to ensure conformity with government and other rules, regulations and standards.
4322	Production Clerks	Compute quantities of materials required at specified dates for manufacturing, construction and similar production programmes; and prepare and check production operation schedules.
7412	Electrical Mechanics And Fitters	Fit, adjust, install and repair electrical machinery and other electrical apparatus and equipment in buildings, factories, workshops, or other places.
8212	Electrical and Electronic Equipment Assemblers	Assemble or modify, according to strictly laid down procedures, components of electrical, electro-mechanical and electronic equipment.

Note: PSOC refers to Philippine Standard Occupational Classification.

LIST OF OCCUPATIONS COVERED BY 2020 OWS IN MANUFACTURE OF MACHINERY AND EQUIPMENT, N.E.C. (C28)

PSOC 2012	OCCUPATION	FUNCTIONS/RESPONSIBILITIES
3122	Manufacturing Supervisors	Coordinate and supervise the activities of process control technicians, machine operators, assemblers, and other manufacturing laborers.
2144	Mechanical Engineers	Conduct research; advise on, design, and direct production of machines, aircraft, ships, machinery and industrial plant, equipment and systems; advise on and direct their functioning, maintenance and repair; or study and advise on mechanical aspects of particular materials, products or processes.
3257	Environmental and Occupational Health Inspectors and Associates (<i>Quality assurance/control inspectors</i>)	Inspect areas of production, processing, transport, handling, storage and sale of products to ensure conformity with government and other rules, regulations and standards.
4322	Production Clerks	Compute quantities of materials required at specified dates for manufacturing, construction and similar production programmes; and prepare and check production operation schedules.
7212	Welders and Flame Cutters	Weld and cut metal parts using gas flame, electric arc and other sources of heat to melt and cut, or to melt and fuse metal.
7222	Toolmakers and Related Workers	Make and repair custom made and specialized tools, sports guns, locks, dies, patterns machinery components and other metal articles using hand and machine tools to work metal to fine tolerances.
7233	Industrial Machinery Mechanics and Repairers	Fit, install, examine, service and repair engines, agricultural and industrial machinery and mechanical equipment, except motor vehicle, aircraft and electric motors.
8211	Mechanical Machinery Assemblers	Assemble, according to strictly laid down procedures, component parts of mechanical machinery such as engines, motor vehicles, turbines and aircraft.

Note: PSOC refers to Philippine Standard Occupational Classification.

LIST OF OCCUPATIONS COVERED BY 2020 OWS IN MANUFACTURE OF MOTOR VEHICLES, TRAILERS AND SEMI-TRAILERS (C29)

PSOC 2012	OCCUPATION	FUNCTIONS/RESPONSIBILITIES
3122	Manufacturing Supervisors	Coordinate and supervise the activities of process control technicians, machine operators, assemblers, and other manufacturing laborers.
2144	Mechanical Engineers	Conduct research; advise on, design, and direct production of machines, aircraft, ships, machinery and industrial plant, equipment and systems; advise on and direct their functioning, maintenance and repair; or study and advise on mechanical aspects of particular materials, products or processes.
3115	Mechanical Engineering Technicians	Perform technical tasks to aid in mechanical engineering research, and in the design, manufacture, assembly, construction, operation, maintenance and repair of machines, components and mechanical equipment.
3257	Environmental and Occupational Health Inspectors and Associates (<i>Quality assurance/control inspectors</i>)	Inspect areas of production, processing, transport, handling, storage and sale of products to ensure conformity with government and other rules, regulations and standards.
7213	Sheet Metal Workers	Make, install and repair articles and parts of articles made out of sheet metal such as sheet steel, copper, tin, brass, aluminum, zinc or galvanised iron.
7231	Motor Vehicle Mechanics and Repairers	Fit, install, maintain, service and repair engines and the mechanical and related equipment of passenger cars, delivery trucks, motorcycles and other motor vehicles.
8211	Mechanical Machinery Assemblers	Assemble, according to strictly laid down procedures, component parts of mechanical machinery such as engines, motor vehicles, turbines and aircraft.

Note: PSOC refers to Philippine Standard Occupational Classification.

LIST OF OCCUPATIONS COVERED BY 2020 OWS IN BUILDING OF SHIPS AND BOATS (C301)

PSOC 2012	OCCUPATION	FUNCTIONS/RESPONSIBILITIES
3122	Manufacturing Supervisors	Coordinate and supervise the activities of process control technicians, machine operators, assemblers, and other manufacturing laborers.
2144	Marine Engineers	Advise on and hulls, superstructures and propulsion systems of ships; mechanical plant and equipment for the release, control and utilization of energy; heating, ventilation and refrigeration systems, steering gear, pumps, and other mechanical equipment;
3257	Environmental and Occupational Health Inspectors and Associates (<i>Quality assurance/control inspectors</i>)	Inspect areas of production, processing, transport, handling, storage and sale of products to ensure conformity with government and other rules, regulations and standards.
4322	Production Clerks	Compute quantities of materials required at specified dates for manufacturing, construction and similar production programmes; and prepare and check production operation schedules.
7126	Plumbers and Pipe Fitters	Assemble, install, repair and maintain pipe systems, fittings and fixtures for water, gas, drainage, sewerage systems, and hydraulic and pneumatic equipment.
7212	Welders and Flame Cutters	Weld and cut metal parts using gas flame, electric arc and other sources of heat to melt and cut, or to melt and fuse metal.
7214	Structural Metal Preparers and Erectors	Assemble, erect and dismantle structural metal frames of buildings and other structures.
7215	Riggers and Cable Splicers	Assemble rigging gear to move and position equipment and structural components, or install and maintain cables, ropes and wires on construction sites, buildings or other structures.
7233	Industrial Machinery Mechanics and Repairers (<i>Marine Craft Mechanics</i>)	Fit, install, examine, service and repair engines, agricultural and industrial machinery and mechanical equipment, except motor vehicle, aircraft and electric motors.

Note: PSOC refers to Philippine Standard Occupational Classification.

LIST OF OCCUPATIONS COVERED BY 2020 OWS IN MANUFACTURE OF FURNITURE (C31)

PSOC 2012	OCCUPATION	FUNCTIONS/RESPONSIBILITIES
3122	Manufacturing Supervisors	Coordinate and supervise the activities of process control technicians, machine operators, assemblers, and other manufacturing laborers.
3257	Environmental and Occupational Health Inspectors and Associates (<i>Quality assurance/control inspectors</i>)	Inspect areas of production, processing, transport, handling, storage and sale of products to ensure conformity with government and other rules, regulations and standards.
3432	Interior Designers and Decorators	Plan and design commercial, industrial, public, retail and residential building interiors to produce an environment tailored to a purpose, taking into consideration factors that enhance living and working environments and sales promotion. They coordinate and participate in their construction and decoration.
4322	Production Clerks	Compute quantities of materials required at specified dates for manufacturing, construction and similar production programmes; and prepare and check production operation schedules.
7522	Cabinet-Makers and Related Workers	Make, decorate and repair wooden furniture, carts and other vehicles, wheels, parts, fittings, patterns, models and other wooden products using woodworking machines, machine tools and specialized hand tools.
7317	Handicraft Workers In Wood, Basketry And Related Materials	Make wicker furniture from peeled and softened rattan, reeds, rushes, willow branches and similar materials
7534	Upholsterers and Related Workers	Install, repair and replace upholstery of furniture, fixtures, orthopaedic appliances; seats, panels, convertible and vinyl tops and other furnishings of automobiles, railway coaches, aircraft, ships and similar items with fabric, leather, rexine or other upholstery material. They also make and repair cushions, quilts and mattresses.
7523	Woodworking Machine Tool Setters and Operators	Set-up or operate and monitor automatic or semi-automatic woodworking machines, such as precision sawing, shaping, planning, boring, turning and woodcarving machines to fabricate or repair wooden parts for furniture, fixtures and other wooden products.
7212	Welders and Flame Cutters	Weld and cut metal parts using gas flame, electric arc and other sources of heat to melt and cut, or to melt and fuse metal.

Note: PSOC refers to Philippine Standard Occupational Classification.

LIST OF OCCUPATIONS COVERED BY 2020 OWS IN ELECTRICITY, GAS, STEAM AND AIR CONDITIONING SUPPLY (D35)

PSOC 2012	OCCUPATION	FUNCTIONS/RESPONSIBILITIES
1449*	Production Supervisors and General Foremen	Supervise the production activities of a distinct unit or sector concerned with processing; coordinate, control and organize the activities of workers; train workers on a particular skill or task.
2151	Electrical Engineers	Conduct research and advise on, design, and direct the construction and operation of electrical systems, components, motors and equipment, and advise on and direct their functioning, maintenance and repair, or study and advise on technological aspects of electrical engineering materials, products and processes.
3113	Electrical Engineering Technicians	Perform technical tasks to aid in electrical engineering research, and in the design, manufacture, assembly, construction, operation, maintenance and repair of electrical equipment, facilities and distribution systems.
4214	Debt Collectors And Related Workers	Collect payments on overdue accounts and bad cheques and collect charity payments.
4222	Contact Center Information Clerks	Provide advice and information to clients; respond to queries regarding a company's or an organization's goods, services or policies; and process financial transactions using the telephone or electronic communications media, such as email. They are located in premises that may be remote from clients or other operations of the organizations or companies about whom information is provided.
7412	Electrical Mechanics and Fitters	Fit, adjust, install and repair electrical machinery and other electrical apparatus and equipment in buildings, factories, workshops, or other places.
7413	Electrical Line Installers and Repairers	Install, repair and join electrical transmission and supply cables and related equipment.
3131	Power Production Plant Operators	Operate, monitor and maintain switchboards and related equipment in electrical control centers which control the production and distribution of electric or other power in transmission networks.

* OWS Code.

Note: PSOC refers to Philippine Standard Occupational Classification.

LIST OF OCCUPATIONS COVERED BY 2020 OWS IN WATER COLLECTION, TREATMENT AND SUPPLY (E36)

PSOC 2012	OCCUPATION	FUNCTIONS/RESPONSIBILITIES
1449*	Production Supervisors and General Foremen	Supervise the production activities of a distinct unit or sector concerned with processing; coordinate, control and organize the activities of workers; train workers on a particular skill or task.
2142	Civil Engineers	Conduct research, advise on, design, and direct construction; manage the operation and maintenance of civil engineering structures; or study and advise on technological aspects of particular materials.
3112	Civil Engineering Technicians	Perform technical tasks in civil engineering research, design, construction, operation, maintenance and repair of buildings and other structures, such as water supply and wastewater treatment systems, bridges, roads, dams and airports.
3257	Environmental and Occupational Health Inspectors and Associates (<i>Quality assurance/control inspectors</i>)	Inspect areas of production, processing, transport, handling, storage and sale of products to ensure conformity with government and other rules, regulations and standards.
4214	Debt Collectors And Related Workers	Collect payments on overdue accounts and bad cheques and collect charity payments.
4222	Contact Center Information Clerks	Provide advice and information to clients; respond to queries regarding a company's or an organization's goods, services or policies; and process financial transactions using the telephone or electronic communications media, such as email. They are located in premises that may be remote from clients or other operations of the organizations or companies about whom information is provided.
7126	Plumbers and Pipe Fitters	Assemble, install, repair and maintain pipe systems, fittings and fixtures for water, gas, drainage, sewerage systems, and hydraulic and pneumatic equipment.
3132	Incinerator and Water Treatment Plant Operators	Monitor and operate computerized control systems and related equipment in solid and liquid waste treatment plants to regulate the treatment and disposal of sewage and wastes, and in water filtration and treatment plants to regulate the treatment and distribution of water.

* OWS Code.

Note: PSOC refers to Philippine Standard Occupational Classification.

LIST OF OCCUPATIONS COVERED BY 2020 OWS IN CONSTRUCTION (F41/F42/F43)

PSOC 2012	OCCUPATION	FUNCTIONS/RESPONSIBILITIES
3123	Construction Supervisors	Coordinate, supervise and schedule the activities of workers engaged in the construction and repair of buildings and structures.
2142	Civil Engineers	Conduct research, advise on, design, and direct construction; manage the operation and maintenance of civil engineering structures; or study and advise on technological aspects of particular materials.
2161	Building Architects	Design commercial, industrial, institutional, residential and recreational buildings and plan and monitor their construction, maintenance and rehabilitation.
7113	Stonemasons, Stone Cutters, Splitters And Carvers	Cut and shape hard and soft stone blocks and slabs for the construction and maintenance of stone structures and monumental masonry, and carve designs and figures in stone.
7114	Concrete Placers, Concrete Finishers and Related Workers	Erect reinforced concrete frameworks and structures, make forms for molding concrete, reinforce concrete surfaces, cement openings in walls or casings for wells, finish and repair cement surfaces and carry out terrazzo work.
7115	Carpenters and Joiners	Cut, shape, assemble, erect, maintain and repair various types of structures and fittings made from wood and other materials.
7124	Insulation Workers	Apply and repair insulating materials to buildings, boilers, pipes or refrigeration and air-conditioning equipment.
7126	Plumbers and Pipe Fitters	Assemble, install, repair and maintain pipe systems, fittings and fixtures for water, gas, drainage, sewerage systems, and hydraulic and pneumatic equipment.
7214	Structural Metal Preparers and Erectors	Assemble, erect and dismantle structural metal frames of buildings and other structures.
7233	Industrial Machinery Mechanics and Repairers (<i>Heavy Equipment Mechanic</i>)	Fit, install, examine, service and repair engines, agricultural and industrial machinery and mechanical equipment, except motor vehicle, aircraft and electric motors.
7411	Building and Related Electricians	Install, maintain and repair electrical wiring systems and related equipment and fixtures.

Note: PSOC refers to Philippine Standard Occupational Classification.

LIST OF OCCUPATIONS COVERED BY 2020 OWS IN WHOLESALE AND RETAIL TRADE AND REPAIR OF MOTOR VEHICLES AND MOTORCYCLES (G45)

PSOC 2012	OCCUPATION	FUNCTIONS/RESPONSIBILITIES
1429*	Sales Supervisors	Engage in, or directly associated with, buying and selling of goods and services for use on behalf of wholesale, retail, industrial or other establishments and organizations.
2411	Accountants (including Auditors)	Plan, organize and administer accounting systems for individuals and establishments. Some occupations classified here examine and analyze the accounting and financial records of individuals and establishments to ensure accuracy and compliance with established accounting standards and procedures.
2431	Advertising and Marketing Professionals (Example: Advertising Account Executive/ Specialist/ Assistant, Marketing Coordinator/ Specialist/ Executive, Business Development Specialist, etc.)	Advertising and marketing professionals develop and coordinate advertising strategies and campaigns, determine the market for new goods and services, and identify and develop market opportunities for new and existing goods and services.
3322	Commercial Sales Representatives	Represent companies to sell various goods and services to businesses and other organizations and provide product specific information as required.
4321	Stock Clerks	Maintain records of goods produced and production materials received, weighed, issued, dispatched or put into stock.
5230	Cashiers and Ticket Clerks	Operate cash registers, optical price scanners, computers or other equipment to record and accept payment for the purchase of goods, services and admissions in settings such as stores, restaurants and ticket offices. Receiving and verifying payment by cash, check, credit card or automatic debit in stores, ticket offices, or similar establishments;
5299*	Shop Sales Assistants/ Sales Demonstrators	Sell a range of goods and services directly to the public or on behalf of retail and wholesale establishments, and explain the functions and qualities of these goods and services. Demonstrate goods at commercial premises, exhibitions and private homes.
7231	Motor Vehicle Mechanics and Repairers	Fit, install, maintain, service and repair engines and the mechanical and related equipment of passenger cars, delivery trucks, motorcycles and other motor vehicles.

* OWS Code.

Note: PSOC refers to Philippine Standard Occupational Classification.

LIST OF OCCUPATIONS COVERED BY 2020 OWS IN WHOLESALE TRADE EXCEPT OF MOTOR VEHICLES AND MOTORCYCLES (G46)

PSOC 2012	OCCUPATION	FUNCTIONS/RESPONSIBILITIES
1429*	Sales Supervisors	Engage in, or directly associated with, buying and selling of goods and services for use on behalf of wholesale, retail, industrial or other establishments and organizations.
2411	Accountants (including Auditors)	Plan, organize and administer accounting systems for individuals and establishments. Some occupations classified here examine and analyze the accounting and financial records of individuals and establishments to ensure accuracy and compliance with established accounting standards and procedures.
2431	Advertising and Marketing Professionals (Example: Advertising Account Executive/ Specialist/ Assistant, Marketing Coordinator/ Specialist/ Executive, Business Development Specialist, etc.)	Advertising and marketing professionals develop and coordinate advertising strategies and campaigns, determine the market for new goods and services, and identify and develop market opportunities for new and existing goods and services.
212	Mathematicians, Actuaries and Statisticians (Example: Operations Research Analyst, Data Analyst, Data Analytics, Data Scientist)	Conduct research, improve or develop mathematical and other aspects of statistical concepts, theories and operational methods and techniques, and advise on or engage in their practical application, in such fields as business and sales . Tasks include planning and organizing surveys and other statistical collections, and designing questionnaires; evaluating, processing, analyzing, and interpreting statistical data and preparing them for publication; advising on or applying various data collection methods and statistical methods and techniques, and determining reliability of findings.
3322	Commercial Sales Representatives	Represent companies to sell various goods and services to businesses and other organizations and provide product specific information as required.
4321	Stock Clerks	Maintain records of goods produced and production materials received, weighed, issued, dispatched or put into stock.
5230	Cashiers and Ticket Clerks	Operate cash registers, optical price scanners, computers or other equipment to record and accept payment for the purchase of goods, services and admissions in settings such as stores, restaurants and ticket offices. Receiving and verifying payment by cash, check, credit card or automatic debit in stores, ticket offices, or similar establishments;
5244	Contact Center Salespersons	Contact existing and prospective customers, using the telephone or other electronic communications media, to promote goods and services, obtain sales and arrange sales visits. They may work from a customer contact center or from non-centralized premises.
5299*	Shop Sales Assistants/ Sales Demonstrators	Sell a range of goods and services directly to the public or on behalf of retail and wholesale establishments, and explain the functions and qualities of these goods and services. Demonstrate goods at commercial premises, exhibitions and private homes.

* OWS Code.

Note: PSOC refers to Philippine Standard Occupational Classification.

LIST OF OCCUPATIONS COVERED BY 2020 OWS IN RETAIL TRADE EXCEPT OF MOTOR VEHICLES AND MOTORCYCLES (G47)

PSOC 2012	OCCUPATION	FUNCTIONS/RESPONSIBILITIES
1429*	Sales Supervisors	Engage in, or directly associated with, buying and selling of goods and services for use on behalf of wholesale, retail, industrial or other establishments and organizations.
2431	Advertising and Marketing Professionals (Example: Advertising Account Executive/ Specialist/ Assistant, Marketing Coordinator/ Specialist/ Executive, Business Development Specialist, etc.)	Advertising and marketing professionals develop and coordinate advertising strategies and campaigns, determine the market for new goods and services, and identify and develop market opportunities for new and existing goods and services.
212	Mathematicians, Actuaries and Statisticians (Example: Operations Research Analyst, Data Analyst, Data Analytics, Data Scientist)	Conduct research, improve or develop mathematical and other aspects of statistical concepts, theories and operational methods and techniques, and advise on or engage in their practical application, in such fields as business and sales . Tasks include planning and organizing surveys and other statistical collections, and designing questionnaires; evaluating, processing, analyzing, and interpreting statistical data and preparing them for publication; advising on or applying various data collection methods and statistical methods and techniques, and determining reliability of findings.
2411	Accountants (including Auditors)	Plan, organize and administer accounting systems for individuals and establishments. Some occupations classified here examine and analyze the accounting and financial records of individuals and establishments to ensure accuracy and compliance with established accounting standards and procedures.
4321	Stock Clerks	Maintain records of goods produced and production materials received, weighed, issued, dispatched or put into stock.
5230	Cashiers and Ticket Clerks	Operate cash registers, optical price scanners, computers or other equipment to record and accept payment for the purchase of goods, services and admissions in settings such as stores, restaurants and ticket offices. Receiving and verifying payment by cash, check, credit card or automatic debit in stores, ticket offices, or similar establishments;
5244	Contact Center Salespersons	Contact existing and prospective customers, using the telephone or other electronic communications media, to promote goods and services, obtain sales and arrange sales visits. They may work from a customer contact center or from non-centralized premises.
5299*	Shop Sales Assistants/ Sales Demonstrators	Sell a range of goods and services directly to the public or on behalf of retail and wholesale establishments, and explain the functions and qualities of these goods and services. Demonstrate goods at commercial premises, exhibitions and private homes.

* OWS Code.

Note: PSOC refers to Philippine Standard Occupational Classification.

LIST OF OCCUPATIONS COVERED BY 2020 OWS IN LAND TRANSPORT AND TRANSPORT VIA PIPELINES EXCEPT TRANSPORT VIA BUSES (H49 excl. H492)

PSOC 2012	OCCUPATION	FUNCTIONS/RESPONSIBILITIES
1459*	Road Transport Service Supervisors	Supervise and coordinate one or more of the service activities of the traffic department, section or unit engaged in road transport undertaking.
4323	Transport Clerks (Dispatchers)	Keep records of operational aspects and coordinate the timing of train, road and air passenger and freight transport; and prepare reports for management.
7231	Motor Vehicle Mechanics and Repairers	Fit, install, maintain, service and repair engines and the mechanical and related equipment of passenger cars, delivery trucks, motorcycles and other motor vehicles.
8321	Motorcycle Drivers	Motorcycle drivers drive and tend motor cycles or motorized tricycles equipped to transport materials, goods or passengers.
8322	Car, Taxi and Van Drivers (Including Courier Driver)	Car, taxi and van drivers drive and tend motor cars and vans to transport passengers, mail or goods.
8332	Heavy Truck and Lorry Drivers	Drive and tend heavy motor vehicles to transport goods, liquids and heavy materials over short or long distances.
9333	Freight Handlers	Carry out tasks such as packing, carrying, loading and unloading furniture and other household items, or loading and unloading ship and aircraft cargoes and other freight, or carrying and stacking goods in various warehouses.

* OWS Code.

Note: PSOC refers to Philippine Standard Occupational Classification.

LIST OF OCCUPATIONS COVERED BY 2020 OWS IN TRANSPORT VIA BUSES (H492)

PSOC 2012	OCCUPATION	FUNCTIONS/RESPONSIBILITIES
1459*	Road Transport Service Supervisors	Supervise and coordinate one or more of the service activities of the traffic department, section or unit engaged in road transport undertaking.
4323	Transport Clerks (Dispatchers)	Keep records of operational aspects and coordinate the timing of passenger and freight transport; and prepare reports for management.
4221	Travel Consultants and Clerks (Ticket issuing/travel clerk)	Make and confirm reservations and sell tickets to passengers.
5112	Transport Conductors	Check and issue tickets; and ensure the safety and comfort of passengers on buses
5119*	Bus Inspectors	Inspect/check tickets of bus passengers.
7231	Motor Vehicle Mechanics and Repairers	Fit, install, maintain, service and repair engines and the mechanical and related equipment.
8331	Bus Drivers	Drive and tend buses to transport passengers, mail or goods.

* OWS Code.

Note: PSOC refers to Philippine Standard Occupational Classification.

LIST OF OCCUPATIONS COVERED BY 2020 OWS IN WATER TRANSPORT (H50)

PSOC 2012	OCCUPATION	FUNCTIONS/RESPONSIBILITIES
1469*	Maritime Transport Service Supervisors	Supervise and coordinate one or more activities of the traffic department, section or unit engaged in marine transport undertaking.
3151	Ship's Engineer	Control and participate in the operation, maintenance and repair of mechanical, electrical and electronic equipment and machinery on board ship, or perform related supporting functions on shore.
3152	Ships's Deck Officers and Pilots	Command and navigate ships and similar vessels, and perform related functions on shore.
4323	Transport Clerks	Keep records of operational aspects and coordinate the timing of train, road and air passenger and freight transport; and prepare reports for management.
4221	Ticket issuing/travel clerk	Make and confirm reservations and sell tickets to passengers.
5111	Travel Attendants and Travel Stewards	Ensure the comfort and safety of passengers; serve meals and beverages; and render personal services, usually on aircraft and on board ships. They may plan and coordinate housekeeping and social activities on ships.
7233	Industrial Machinery Mechanics and Repairers (<i>Marine Machinery Mechanic</i>)	Fit, install, examine, service and repair engines, agricultural and industrial machinery and mechanical equipment, except motor vehicle, aircraft and electric motors.
8350	Ships' Deck Crews and Related Workers	Carry out deck duties on board ship and similar duties on board other water-borne craft.
9333	Freight Handlers	Carry out tasks such as packing, carrying, loading and unloading furniture and other household items, or loading and unloading ship and aircraft cargoes and other freight, or carrying and stacking goods in various warehouses.

* OWS Code.

Note: PSOC refers to Philippine Standard Occupational Classification.

LIST OF OCCUPATIONS COVERED BY 2020 OWS IN AIR TRANSPORT (H51)

PSOC 2012	OCCUPATION	FUNCTIONS/RESPONSIBILITIES
1479*	Air Transport Service Supervisors	Supervise and coordinate one or more activities of the traffic department, section or unit engaged in air transport undertaking.
3153	Aircraft Pilots and Related Associate Professionals	Control the operation of mechanical, electrical and electronic equipment, in order to navigate aircraft for transporting passengers, mail and freight and perform related pre-flight and in-flight tasks.
4323	Transport Clerks	Keep records of operational aspects and coordinate the timing of train, road and air passenger and freight transport; and prepare reports for management.
4221	Travel Consultants and Clerks (<i>Ticket issuing/travel clerk</i>)	Make and confirm reservations and sell tickets to passengers.
5111	Travel Attendants and Travel Stewards	Ensure the comfort and safety of passengers; serve meals and beverages; and render personal services, usually on aircraft and on board ships. They may plan and coordinate housekeeping and social activities on ships.
7232	Aircraft Engine Mechanics and Repairers	Fit, service, repair and overhaul aircraft engines and assemblies, such as airframes, hydraulic, and pneumatic systems.
9333	Freight Handlers	Carry out tasks such as packing, carrying, loading and unloading furniture and other household items, or loading and unloading ship and aircraft cargoes and other freight, or carrying and stacking goods in various warehouses.

* OWS Code.

Note: PSOC refers to Philippine Standard Occupational Classification.

LIST OF OCCUPATIONS COVERED BY 2020 OWS IN WAREHOUSING AND SUPPORT ACTIVITIES FOR TRANSPORTATION (H52)

PSOC 2012	OCCUPATION	FUNCTIONS/RESPONSIBILITIES
3331	Clearing and Forwarding Agents	Carry out customs clearing procedures and ensure that insurance, export/import licenses and other formalities are in order.
8332	Heavy Truck and Lorry Drivers	Drive and tend heavy motor vehicles to transport goods, liquids and heavy materials over short or long distances.
9333	Freight Handlers	Carry out tasks such as packing, carrying, loading and unloading furniture and other household items, or loading and unloading ship and aircraft cargoes and other freight, or carrying and stacking goods in various warehouses.

Note: PSOC refers to Philippine Standard Occupational Classification.

LIST OF OCCUPATIONS COVERED BY 2020 OWS IN POSTAL AND COURIER ACTIVITIES (H53)

PSOC 2012	OCCUPATION	FUNCTIONS/ RESPONSIBILITIES
4323	Transport Clerks	Transport clerks keep records of operational aspects and coordinate the timing of freight transport; and prepare reports for management. Task includes coordinating and keeping records of operational activities concerning road transport, such as allocation and scheduling of vehicles and drivers, loading and unloading of vehicles and storage of goods in transit.
8321	Motorcycle Drivers	Motor-cycle drivers drive and tend motor cycles or motorized tricycles equipped to transport materials, goods.
8322	Car and Van Drivers (Including Courier Driver)	Car and van drivers drive and tend motor cars and vans to transport mail or goods.
8332	Heavy Truck and Lorry Drivers	Drive and tend heavy motor vehicles to transport goods, liquids and heavy materials over short or long distances.
9333	Freight Handlers	Carry out tasks such as packing, carrying, loading and unloading cargoes and other freight, or carrying and stacking goods in various warehouses.

Note: PSOC refers to Philippine Standard Occupational Classification.

LIST OF OCCUPATIONS COVERED BY 2020 OWS IN ACCOMMODATION AND FOOD SERVICE ACTIVITIES (I55/I56)

PSOC 2012	OCCUPATION	FUNCTIONS/RESPONSIBILITIES
2411	Accountants (including Auditors)	Plan, organize and administer accounting systems for individuals and establishments. Some occupations classified here examine and analyze the accounting and financial records of individuals and establishments to ensure accuracy and compliance with established accounting standards and procedures.
4226	Receptionists (General)	Receive and welcome visitors, clients, or guests; and respond to enquiries and requests, including arranging for appointments.
5139*	Service Crew	Usually found in fast food stores; performs various tasks such as cooking, serving, cleaning and the like.
5151	Cleaning and Housekeeping Supervisors in Offices, Hotels and Other Establishments	Organize, supervise and carry out housekeeping functions in order to keep clean and tidy the interiors, fixtures and facilities in these establishments.
5120	Cooks	Plan, organize, prepare and cook meals in hotels, restaurants and other eating places, on board ships, on passenger trains and in private households.
5131	Waiters	Serve food and beverages at tables in dining and drinking places, clubs, institutions and canteens, on board ships and on passenger trains.
9112	Cleaners and Helpers in Offices, Hotels and Other Establishments	Perform various cleaning tasks in order to keep clean and tidy the interiors and fixtures of hotels, offices and other establishments, as well as of aircraft, trains, buses and similar vehicles.

* OWS Code.

Note: PSOC refers to Philippine Standard Occupational Classification.

LIST OF OCCUPATIONS COVERED BY 2020 OWS IN PUBLISHING ACTIVITIES (J58)

PSOC 2012	OCCUPATION	FUNCTIONS/RESPONSIBILITIES
1449*	Production Supervisors and General Foremen	Supervise the production activities of a distinct unit or sector concerned with processing; coordinate, control and organize the activities of workers; train workers on a particular skill or task.
2642	Journalists	Research, investigate, interpret and communicate news and public affairs through newspapers, television, radio and other media.
4413	Coding, Proof-Reading and Related Clerks	Convert information into codes; verify and correct proofs; and perform a number of miscellaneous clerical duties.
7321	Pre-Press Technicians	Proof, format, set and compose text and graphics into a form suitable for use in various printing processes and representation in other visual media. Operating plate making equipment to reproduce images from film to printing plates, digital output devices and presses;
7316	Sign Writers, Decorative Painters, Engravers and Etchers	Decorate articles made of wood, metal, textiles, glass, ceramics and other materials. They plan, lay out and paint letters, figures, monograms and designs to make signs and engrave and etch ornamental and floral designs on glass and other articles.
7323	Print Finishing and Binding Workers	Bind books and other publications, and finish printed products by hand or machine.
7322	Printers	Set up and operate digital, letterpress, lithographic, flexographic, gravure, newspaper and other printing presses.

* OWS Code.

Note: PSOC refers to Philippine Standard Occupational Classification.

LIST OF OCCUPATIONS COVERED BY 2020 OWS IN ANIMATED FILMS AND CARTOONS PRODUCTION (J590*)

PSOC 2012	OCCUPATION	FUNCTIONS/RESPONSIBILITIES
2166	Graphic and Multimedia Designers	Design information content for visual and audio communication, publication and display using print, film, electronic, digital and other forms of visual and audio media. They create special effects, animation, or other visual images for use in computer games, movies, music videos, print media and advertisements.
2654	Film, Stage and Related Directors And Producers	Oversee and control the technical and artistic aspects of motion pictures, television or radio productions and stage shows.
2641	Authors and Related Writers	Plan, research, and write scripts, storyboards, and other non-journalistic articles for publication or presentation.
2651	Visual Artist (<i>Example: Cartoonist, Commercial Artist</i>)	Create and execute works of art by drawing, painting, creating cartoons, or using other techniques.

Note: PSOC refers to Philippine Standard Occupational Classification.

LIST OF OCCUPATIONS COVERED BY 2020 OWS IN TELECOMMUNICATIONS (J61)

PSOC 2012	OCCUPATION	FUNCTIONS/RESPONSIBILITIES
212	Mathematicians, Actuaries and Statisticians (Example: Operations Research Analyst, Data Analyst, Data Analytics, Data Scientist)	Conduct research, improve or develop mathematical and other aspects of statistical concepts, theories and operational methods and techniques, and advise on or engage in their practical application, in such fields as business. Tasks include planning and organizing surveys and other statistical collections, and designing questionnaires; evaluating, processing, analyzing, and interpreting statistical data and preparing them for publication; advising on or applying various data collection methods and statistical methods and techniques, and determining reliability of findings.
1330	Information And Communications Technology Service Managers	Plan, direct, and coordinate the acquisition, development, maintenance and use of computer and telecommunication systems.
2153	Telecommunications Engineers	Conduct research and advise on, design, and direct the construction functioning, maintenance and repair of telecommunication systems and equipment. They study and advise on technological aspects of telecommunication engineering materials, products or processes.
3522	Telecommunications Engineering Technicians	Telecommunications engineering technicians perform technical tasks connected with telecommunications engineering research, as well as with the design, manufacture, assembly, construction, operation, maintenance and repair of telecommunications systems.
4223	Telephone Switchboard Operators	Operate telephone communications switchboards and consoles to establish telephone connections; receive caller inquiries and service problem reports; and record and relay messages to staff or clients.
4222	Contact Center Information Clerks	Provide advice and information to clients; respond to queries regarding a company's or an organization's goods, services or policies; and process financial transactions using the telephone or electronic communications media, such as email. They are located in premises that may be remote from clients or other operations of the organizations or companies about whom information is provided.
7422	Information and Communications Technology Installers and Servicers	Install, repair and maintain telecommunications equipment, data transmission equipment, cables, antennae and conduits and repair, fit and maintain computers.

Note: PSOC refers to Philippine Standard Occupational Classification.

LIST OF OCCUPATIONS COVERED BY 2020 OWS IN COMPUTER PROGRAMMING, CONSULTANCY AND RELATED ACTIVITIES; INFORMATION SERVICE ACTIVITIES (J62/J63)

PSOC 2012	OCCUPATION	FUNCTIONS/RESPONSIBILITIES
212	Mathematicians, Actuaries and Statisticians (Example: Operations Research Analyst, Data Analyst, Data Analytics, Data Scientist)	Conduct research, improve or develop mathematical and other aspects of statistical concepts, theories and operational methods and techniques, and advise on or engage in their practical application, in such fields as business. Tasks include planning and organizing surveys and other statistical collections, and designing questionnaires; evaluating, processing, analyzing, and interpreting statistical data and preparing them for publication; advising on or applying various data collection methods and statistical methods and techniques, and determining reliability of findings.
2511	Systems Analysts	Conduct research, analyze and evaluate client information technology requirements, procedures or problems, and develop and implement proposals, recommendations, and plans to improve current or future information systems.
2512	Software Developers	Software developers research, analyze and evaluate requirements for existing or new software applications and operating systems, and design, develop, test and maintain software solutions to meet these requirements.
2514	Applications Programmers	Write and maintain programmable code outlined in technical instructions and specifications for software applications and operating systems.
2152	Electronics Engineers	Conduct research on, design, and direct the construction functioning, maintenance and repair of electronic systems and study and advise on technological aspects of electronic engineering materials, products or processes.
2153	Telecommunications Engineers	Conduct research and advise on, design, and direct the construction functioning, maintenance and repair of telecommunication systems and equipment. They study and advise on technological aspects of telecommunication engineering materials, products or processes.
2513	Web and Multimedia Developers	Web and multimedia development professionals combine design and technical knowledge to research, analyze, evaluate, design, programme and modify websites, and applications that draw together text, graphics, animations, imaging, audio and video displays, and other interactive media.
2523	Computer Network Professionals	Research, analyze and recommend strategies for network architecture and development, implement, manage, maintain and configure network hardware and software, and monitor, troubleshoot and optimize performance.
3512	Information and Communications Technology User Support Technicians	Provide technical assistance to users, either directly or by telephone, e-mail or other electronic means, including diagnosing and resolving issues and problems with software, hardware, computer peripheral equipment, networks, databases and the Internet, and providing guidance and support in the deployment, installation and maintenance of systems.
3511	Information and Communications Technology Operations Technicians	Support the day-to-day processing, operation and monitoring of information and communications technology systems, peripherals, hardware, software and related computer equipment to ensure optimal performance, and identify any problems.
4132	Data Entry Clerks	Enter coded, statistical, financial and other numerical data into electronic equipment, computerized databases, spreadsheets or other data repositories using a keyboard, mouse, or optical scanner, speech recognition software or other data entry tools. They enter data into mechanical and electronic devices to perform mathematical calculations.

Note: PSOC refers to Philippine Standard Occupational Classification.

LIST OF OCCUPATIONS COVERED BY 2020 OWS IN FINANCIAL SERVICE ACTIVITIES EXCEPT INSURANCE, PENSION FUNDING AND CENTRAL BANKING (K64 excl. K6411)

PSOC 2012	OCCUPATION	FUNCTIONS/RESPONSIBILITIES
212	Mathematicians, Actuaries and Statisticians (Example: Operations Research Analyst, Data Analyst, Data Analytics, Data Scientist)	Conduct research, improve or develop mathematical and other aspects of statistical concepts, theories and operational methods and techniques, and advise on or engage in their practical application, in such fields as business and finance . Tasks include planning and organizing surveys and other statistical collections, and designing questionnaires; evaluating, processing, analyzing, and interpreting statistical data and preparing them for publication; advising on or applying various data collection methods and statistical methods and techniques, and determining reliability of findings.
2411	Accountants (including Auditors)	Plan, organize and administer accounting systems for individuals and establishments. Some occupations classified here examine and analyze the accounting and financial records of individuals and establishments to ensure accuracy and compliance with established accounting standards and procedures.
2631	Economists	Conduct research, monitor data, analyze information and prepare reports and plans to resolve economic and business problems and develop models to analyze, explain and forecast economic behavior and patterns. They provide advice to business, interest groups and governments to formulate solutions to present or projected economic and business problems.
3311	Securities and Finance Dealers and Brokers	Buy and sell securities, stocks, bonds and other financial instruments, and deal on the foreign exchange, on spot, or on futures markets, on behalf of their own company or for customers on a commission basis. They recommend transactions to clients or senior management.
3312	Credit and Loans Officers	Credit and loan officers analyze and evaluate financial information on applications for credit and loans and determine approval or disapproval of the client for the credit or loan or recommend to management approval or disapproval.
3313	Accounting Associate Professionals	Maintain complete records of financial transactions of an undertaking and verify accuracy of documents and records relating to such transactions.
4312	Statistical, Finance and Insurance Clerks	Obtain, compile and compute statistical or actuarial data or perform clerical tasks relating to the transactions of insurance establishments, banks and other financial establishments.
4211	Bank Tellers and Related Clerks	Deal directly with clients of banks or post offices in connection with receiving, changing and paying out money; or providing mail services.
4214	Debt Collectors and Related Workers	Collect payments on overdue accounts and bad cheques and collect charity payments.
4222	Contact Center Information Clerks	Provide advice and information to clients; respond to queries regarding a company's or an organization's goods, services or policies; and process financial transactions using the telephone or electronic communications media, such as email. They are located in premises that may be remote from clients or other operations of the organizations or companies about whom information is provided.

Note: PSOC refers to Philippine Standard Occupational Classification.

LIST OF OCCUPATIONS COVERED BY 2020 OWS IN INSURANCE, REINSURANCE AND PENSION FUNDING EXCEPT COMPULSORY SOCIAL SECURITY (K65)

PSOC 2012	OCCUPATION	FUNCTIONS/RESPONSIBILITIES
212	Mathematicians, Actuaries and Statisticians (Example: Operations Research Analyst, Data Analyst, Data Analytics, Data Scientist)	Conduct research, improve or develop mathematical and other aspects of statistical concepts, theories and operational methods and techniques, and advise on or engage in their practical application, in such fields as business and finance . Tasks include planning and organizing surveys and other statistical collections, and designing questionnaires; evaluating, processing, analyzing, and interpreting statistical data and preparing them for publication; advising on or applying various data collection methods and statistical methods and techniques, and determining reliability of findings.
2411	Accountants (including Auditors)	Plan, organize and administer accounting systems for individuals and establishments. Some occupations classified here examine and analyze the accounting and financial records of individuals and establishments to ensure accuracy and compliance with established accounting standards and procedures.
2514	Applications Programmers	Write and maintain programmable code outlined in technical instructions and specifications for software applications and operating systems.
3321	Insurance Representatives	Advise on and sell life, accident, automobile, liability, endowment, fire, marine and other types of insurance to new and established clients.
3315	Valuers and Loss Assessors (Examples: Appraiser; Claims Assessor; Claims Evaluator; Claims Inspector; Claims Verifier; and Insurance Assessor)	Value property and various goods and assess losses covered by insurance policies.
3313	Accounting Associate Professionals	Accounting associate professionals maintain complete records of financial transactions of an undertaking and verify accuracy of documents and records relating to such transactions.
4312	Statistical, Finance and Insurance Clerks	Obtain, compile and compute statistical or actuarial data or perform clerical tasks relating to the transactions of insurance establishments, banks and other financial establishments.
4214	Debt Collectors and Related Workers	Collect payments on overdue accounts and bad cheques and collect charity payments.
4222	Contact Center Information Clerks	Provide advice and information to clients; respond to queries regarding a company's or an organization's goods, services or policies; and process financial transactions using the telephone or electronic communications media, such as email. They are located in premises that may be remote from clients or other operations of the organizations or companies about whom information is provided.

Note: PSOC refers to Philippine Standard Occupational Classification.

**LIST OF OCCUPATIONS COVERED BY 2020 OWS
IN REAL ESTATE ACTIVITIES (L68)**

PSOC 2012	OCCUPATION	FUNCTIONS/RESPONSIBILITIES
3334	Real Estate Agents and Property Managers (<i>Real Estate Brokers</i>)	Arrange the sale, purchase, rental and lease of real property, usually on behalf of clients.

Note: PSOC refers to Philippine Standard Occupational Classification.

**LIST OF OCCUPATIONS COVERED BY 2020 OWS IN ACCOUNTING,
BOOKKEEPING AND AUDITING ACTIVITIES;
TAX CONSULTANCY (M692)**

PSOC 2012	OCCUPATION	FUNCTIONS/RESPONSIBILITIES
2411	Accountants (including Auditors)	Plan, organize and administer accounting systems for individuals and establishments. Some occupations classified here examine and analyze the accounting and financial records of individuals and establishments to ensure accuracy and compliance with established accounting standards and procedures.
2413	Financial Analyst	Financial analysts conduct quantitative analyses of information affecting investment programs of public or private institutions.
3313	Accounting Associate Professionals	Maintain complete records of financial transactions of an undertaking and verify accuracy of documents and records relating to such transactions.
4132	Data Entry Clerks	Enter coded, statistical, financial and other numerical data into electronic equipment, computerized databases, spreadsheets or other data repositories using a keyboard, mouse, or optical scanner, speech recognition software or other data entry tools. They enter data into mechanical and electronic devices to perform mathematical calculations.

Note: PSOC refers to Philippine Standard Occupational Classification.

LIST OF OCCUPATIONS COVERED BY 2020 OWS IN ARCHITECTURAL AND ENGINEERING ACTIVITIES AND RELATED TECHNICAL CONSULTANCY (M711)

PSOC 2012	OCCUPATION	FUNCTIONS/RESPONSIBILITIES
2114	Geologists and Geophysicists	Conduct research; improve or develop concepts, theories and operational methods, or apply scientific knowledge relating to geology and geophysics in such fields as oil, gas and mineral exploration and extraction, water conservation, civil engineering, telecommunications and navigation, and assessment and mitigation of the effects of development and waste disposal projects on the environment.
2161	Building Architects	Design commercial, industrial, institutional, residential and recreational buildings and plan and monitor their construction, maintenance and rehabilitation.
2162	Landscape Architects	Plan and design landscapes and open spaces for projects such as, parks, schools, institutions, roads, external areas for commercial, industrial and residential sites, and plan and monitor their construction, maintenance and rehabilitation.
2142	Civil Engineers including Geodetic Engineers	Conduct research, advise on, design, and direct construction; manage the operation and maintenance of civil engineering structures; or study and advise on technological aspects of particular materials.
2151	Electrical Engineers	Conduct research and advise on, design, and direct the construction and operation of electrical systems, components, motors and equipment, and advise on and direct their functioning, maintenance and repair, or study and advise on technological aspects of electrical engineering materials, products and processes.
3112	Civil Engineering Technicians	Perform technical tasks in civil engineering research, design, construction, operation, maintenance and repair of buildings and other structures, such as water supply and wastewater treatment systems, bridges, roads, dams and airports.
3113	Electrical Engineering Technicians	Perform technical tasks to aid in electrical engineering research, and in the design, manufacture, assembly, construction, operation, maintenance and repair of electrical equipment, facilities and distribution systems.
3118	Draftsmen	Prepare technical drawings, maps and illustrations from sketches, measurements and other data, and copy final drawings and paintings on to printing plates.

Note: PSOC refers to Philippine Standard Occupational Classification.

**LIST OF OCCUPATIONS COVERED BY 2020 OWS IN TRAVEL AGENCY,
 TOUR OPERATOR, RESERVATION SERVICE
 AND RELATED ACTIVITIES (N79)**

PSOC 2012	OCCUPATION	FUNCTIONS/RESPONSIBILITIES
4221	Travel Consultants and Clerks	Supply information, arrange travel itineraries, obtain travel and accommodation reservations; and organize group tours.
5113	Travel Guides	Accompany individuals or groups on trips, sightseeing tours and excursions and on tours of places of interest such as historical sites, industrial establishments and theme parks. They describe points of interest and provide background information on interesting features.

Note: PSOC refers to Philippine Standard Occupational Classification.

LIST OF OCCUPATIONS COVERED BY 2020 OWS IN CALL CENTER ACTIVITIES (VOICE) (N8221)

PSOC 2012	OCCUPATION	FUNCTIONS/RESPONSIBILITIES
212	Mathematicians, Actuaries and Statisticians (Example: Operations Research Analyst, Data Analyst, Data Analytics, Data Scientist)	Conduct research, improve or develop mathematical and other aspects of statistical concepts, theories and operational methods and techniques, and advise on or engage in their practical application, in such fields as business. Tasks include planning and organizing surveys and other statistical collections, and designing questionnaires; evaluating, processing, analyzing, and interpreting statistical data and preparing them for publication; advising on or applying various data collection methods and statistical methods and techniques, and determining reliability of findings.
2514	Applications Programmers	Write and maintain programmable code outlined in technical instructions and specifications for software applications and operating systems.
2512	Computer Engineers	Research, analyze and evaluate requirements for existing or new software applications and operating systems, and design, develop, test and maintain software solutions to meet these requirements.
3512	Information and Communications Technology User Support Technicians	Provide technical assistance to users, either directly or by telephone, e-mail or other electronic means, including diagnosing and resolving issues and problems with software, hardware, computer peripheral equipment, networks, databases and the Internet, and providing guidance and support in the deployment, installation and maintenance of systems.
4220*	Contact Center Information Clerks (Includes Contact Center Salesperson)	Provide advice and information to clients; respond to queries regarding a company's or an organization's goods, services or policies; and process financial transactions using the telephone or electronic communications media, such as email. They are located in premises that may be remote from clients or other operations of the organizations or companies about whom information is provided.

* OWS Code.

Note: PSOC refers to Philippine Standard Occupational Classification.

LIST OF OCCUPATIONS COVERED BY 2020 OWS IN BACK-OFFICE OPERATIONS ACTIVITIES (NON-VOICE) EXCEPT MEDICAL TRANSCRIPTION ACTIVITIES (N8222 except N82226)

PSOC 2012	OCCUPATION	FUNCTIONS/RESPONSIBILITIES
212	Mathematicians, Actuaries and Statisticians (Example: Operations Research Analyst, Data Analyst, Data Analytics, Data Scientist)	Conduct research, improve or develop mathematical and other aspects of statistical concepts, theories and operational methods and techniques, and advise on or engage in their practical application, in such fields as business.
2511	Systems Analyst (Example: Systems Analyst, ICT Business Analyst, Computer Analyst)	Conduct research, analyze and evaluate client information technology requirements, procedures or problems, and develop and implement proposal, recommendations, and plans to improve current or future information systems.
2512	Software Developers (Example: Software Developers/ Engineer)	Research, analyze and evaluate requirements for existing or new software applications and operating systems, and design, develop test and maintain software solutions to meet their requirements.
2513	Web and Multimedia Developers (Example: Game Developers, Animation Programmer, Website Developer, Computer Graphic Artist)	Combine design and technical knowledge to research, analyze, evaluate, design, program and modify websites, and applications that draw together text, graphics, animations, imaging, audio and video displays, and other interactive media.
2514	Applications Programmers (Example: Application Programmers, C Language/ Cobol/ Java/ Oracle Programmer)	Write and maintain programmable code outlined in technical instructions and specifications for software applications and operating systems.
2521	Database Designers and Administrators	Design, develop, control, maintain and support the optimal performance and security of databases. Task includes database management, database architecture, data structures, tables, dictionaries, backup and recovery of data.
2522	Systems Administrators (Example: Network/Systems Administrator/Engineer)	Design, develop, control, maintain and support the optimal performance and security of databases. Task includes computer network and systems and diagnosing hardware and software problems.
2523	Computer Network Professionals (Example: Network Analyst, IT specialist, Management Information Analyst)	Research, analyze and recommend strategies for network architecture and development, implement, manage, maintain and configure network hardware and software, and monitor, troubleshoot and optimize performance.
4220*	Contact Center Information Clerks	Contact center information clerks provide advice and information to clients; respond to queries regarding a company's or an organization's goods, services or policies; and process financial transactions using the telephone or electronic communications media, such as email. They are located in premises that may be remote from clients or other operations of the organizations or companies about whom information is provided.

* OWS Code.

Note: PSOC refers to Philippine Standard Occupational Classification.

LIST OF OCCUPATIONS COVERED BY 2020 OWS IN MEDICAL TRANSCRIPTION ACTIVITIES (N82226)

PSOC 2012	OCCUPATION	FUNCTIONS/RESPONSIBILITIES
2514	Applications Programmers	Write and maintain programmable code outlined in technical instructions and specifications for software applications and operating systems.
2512	Computer Engineers	Research, analyze and evaluate requirements for existing or new software applications and operating systems, and design, develop, test and maintain software solutions to meet these requirements.
3512	Information and Communications Technology User Support Technicians	Provide technical assistance to users, either directly or by telephone, e-mail or other electronic means, including diagnosing and resolving issues and problems with software, hardware, computer peripheral equipment, networks, databases and the Internet, and providing guidance and support in the deployment, installation and maintenance of systems.
3344	Medical Transcriptionists	Using specialized knowledge of medical terminology and health care delivery procedures, assist health professionals and other workers by performing a variety of communication, documentation, administrative and internal coordination functions, to support health workers in medical facilities and other health-care related organizations.
4220*	Contact Center Information Clerks	Contact center information clerks provide advice and information to clients; respond to queries regarding a company's or an organization's goods, services or policies; and process financial transactions using the telephone or electronic communications media, such as email. They are located in premises that may be remote from clients or other operations of the organizations or companies about whom information is provided.

* OWS Code.

Note: PSOC refers to Philippine Standard Occupational Classification.

LIST OF OCCUPATIONS COVERED BY 2020 OWS IN EDUCATION EXCEPT PUBLIC EDUCATION (P85)

PSOC 2012	OCCUPATION	FUNCTIONS/RESPONSIBILITIES
2310	University and Higher Education Teachers	Prepare and deliver lectures and conduct tutorials in one or more subjects within a prescribed course of study at a university or other higher educational institution. They conduct research, and prepare scholarly papers and books.
2320	Vocational Education Teachers	Teach or instruct vocational or occupational subjects in adult and further education institutions and to senior students in secondary schools and colleges. They prepare students for employment in specific occupations or occupational areas for which university or higher education is not normally required.
2330	Secondary Education Teachers	Teach one or more subjects at secondary education level, excluding subjects intended to prepare students for employment in specific occupational areas.
2339*	Science and Mathematics Teaching Professionals	Teach academic subjects at the second level of education in science and mathematics.
2352	Special Need Teachers including gifted and mentally and physically handicapped	Teach physically or mentally handicapped children, young persons, or adults, or those with learning difficulties or other special needs. They promote the social, emotional, intellectual and physical development of their students.
2341	Primary School Teachers	Teach a range of subjects at the primary education level.
2342	Early Childhood Educators	Promote the social, physical, and intellectual development of children below primary school age through the provision of educational and play activities.
2423	Personnel and Careers Professionals (Example – Guidance counsellor)	Provide professional business services related to personnel policies such as employee recruitment or development, occupational analyzes and vocational guidance.

* OWS Code.

Note: PSOC refers to Philippine Standard Occupational Classification.

LIST OF OCCUPATIONS COVERED BY 2020 OWS IN HUMAN HEALTH ACTIVITIES EXCEPT PUBLIC HEALTH ACTIVITIES (Q86)

PSOC 2012	OCCUPATION	FUNCTIONS/RESPONSIBILITIES
2211	Generalist Medical Practitioners (<i>Medical Doctors</i>)	Diagnose, treat and prevent illness, disease, injury, and other physical and mental impairments and maintain general health in humans through application of the principles and procedures of modern medicine. They do not limit their practice to certain disease categories or methods of treatment, and may assume responsibility for the provision of continuing and comprehensive medical care to individuals, families and communities.
2212	Specialist Medical Practitioners	They specialize in certain disease categories, types of patient or methods of treatment and may conduct medical education and research in their chosen areas of specialization.
2261	Dentists	Diagnose, treat and prevent diseases, injuries and abnormalities of the teeth, mouth, jaws and associated tissues by applying the principles and procedures of modern dentistry.
2265	Dieticians and Nutritionist	Assess, plan and implement programs to enhance the impact of food and nutrition on human health.
3212	Medical and Pathology Laboratory Technicians (<i>Medical Technologists</i>)	Perform clinical tests on specimens of bodily fluids and tissues in order to obtain information about the health of a patient or cause of death.
2264	Physiotherapist (<i>Physical Therapist</i>)	Assess, plan and implement rehabilitative programs that improve or restore human motor functions, maximize movement ability, relieve pain syndromes, and treat or prevent physical challenges associated with injuries, diseases and other impairments. They apply a broad range of physical therapies and techniques such as movement, ultrasound, heating, laser and other techniques.
2221	Nursing Professionals (<i>Examples: Professional/Licensed Nurse, Nursing Assistant</i>)	Provide treatment, support and care services for people who are in need of nursing care due to the effects of ageing, injury, illness or other physical or mental impairment, or potential risks to health. They assume responsibility for the planning and management of the care of patients, including the supervision of other health care workers, working autonomously or in teams with medical doctors and others in the practical application of preventive and curative measures.
5321	Health Care Assistants (<i>Examples: Nursing aide, Nursing attendant, Caregiver, Hospital aide, Hospital attendant, Medical aide, Patient care assistant</i>)	Health care assistants provide direct personal care and assistance with activities of daily living to patients and residents in a variety of health care settings such as hospitals. They generally work in implementation of established care plans and practices, and under the direct supervision of medical, nursing or other health professionals or associate professionals.
2222	Midwifery Professionals	Plan, manage, provide and evaluate midwifery care services before, during and after pregnancy and childbirth. They provide delivery care for reducing health risks to women and newborn children, working autonomously or in teams with other health care providers.
2262	Pharmacist	Pharmacists store, preserve, compound, and dispense medicinal products and counsel on the proper use and adverse effects of drugs and medicines following prescriptions issued by medical doctors and other health professionals. They contribute to researching, testing preparing, prescribing and monitoring medicinal therapies for optimizing human health.
3211	Medical Imaging and Therapeutic Equipment Technicians (<i>Examples: X-ray/ECG technician, CT Scan technologist, Radiographer</i>)	Test and operate radiographic, ultrasound and other medical imaging equipment to produce images of body structures for the diagnosis and treatment of injury, disease and other impairments. They may administer radiation treatments to patients under the supervision of a radiologist or other health professional.

* OWS Code.

Note: PSOC refers to Philippine Standard Occupational Classification.

LIST OF OCCUPATIONS COVERED BY 2020 OWS IN OTHER PERSONAL SERVICE ACTIVITIES (S96)

PSOC 2012	OCCUPATION	FUNCTIONS/RESPONSIBILITIES
3255	Physiotherapy Technicians and Assistants (<i>Example: Massage Therapist</i>)	Provide physical therapeutic treatments to patients in circumstances where functional movement is threatened by injury, disease or impairment.
3423	Fitness and Recreation Instructors and Program Leaders	Lead, guide, and instruct groups and individuals in recreational, fitness or outdoor adventure activities.
5141	Hairdressers (<i>Examples: Barber, Hairstylist</i>)	Cut, style, color, straighten and permanently wave hair; shave or trim facial hair; and treat scalp conditions.
5142	Beauticians and Related Workers (<i>Examples: Attendant (sauna bath, face/body massage/scrub, face/foot/hand spa), Make-up Artist, Manicurist, Pedicurist, Beauty Consultant</i>)	Give facial and body beauty treatments; apply cosmetics and make-up; and give other kinds of treatment to individuals in order to improve their appearance.

Note: PSOC refers to Philippine Standard Occupational Classification.