



CONSTRUCTION-RELATED TRADES OCCUPATIONS

Proposed Changes
2022



3222 SHEETMETAL ~~TRADES~~ WORKERS

Sheetmetal ~~Trades~~ Workers mark out, shape, form and join sheetmetal and other materials to make products and components. Second Class Sheetmetal Workers are excluded from this unit group.

Second Class Sheetmetal Workers are included in Unit Group 7123 Engineering Production Workers.

Indicative Skill Level:

Most occupations in this unit group have a level of skill commensurate with the qualifications and experience outlined below.

In Australia:

- AQF Certificate III including at least two years of on-the-job training, or AQF Certificate IV (ANZSCO Skill Level 3)

In New Zealand:

- NZQF Level 4 qualification (ANZSCO Skill Level 3)

At least three years of relevant experience may substitute for the formal qualifications listed above. In some instances relevant experience and/or on-the-job training may be required in addition to the formal qualification.

Tasks Include:

- studying blueprints, drawings and specifications to determine job, material and equipment requirements
- selecting metal stock, such as stainless steel, galvanised iron, mild steel, aluminium and copper, and checking sizes, gauges and other dimensions of metal stock against specifications
- marking out metal stock with reference points and lines, using templates, gauges and other measuring instruments
- cutting metal stock along guidelines using hand and power shears, computerised laser and plasma cutters, guillotines and drills
- shaping and forming cut metal stock into products using folding and bending machines, rollers, presses and hammers
- fitting and assembling components into final products by welding, riveting, soldering, brazing and otherwise joining
- finishing products by polishing, filing, sanding and cleaning assembled products
- may repair damaged sheetmetal products and components
- may specialise in fabrication, or on-site assembly and installation, of sheetmetal products
- may produce aircraft sheet-metal components requiring advanced drawing and calculating skills
- may specialise in decorative copperwork

Occupation:

- 322211 Sheetmetal ~~Trades~~ Worker

322211 Sheetmetal ~~Trades~~ Worker

Alternative Title:

- Sheetmetal Fabricator

Marks out, shapes, forms and joins sheetmetal and other materials to make products and components.

Skill Level: 3

Specialisations:

- ~~Metal Spinner~~
- ~~Sheetmetal Patternmaker~~

3223 STRUCTURAL STEEL AND WELDING TRADES WORKERS

Structural Steel and Welding Trades Workers cut, shape, join and repair ~~metal~~ components of iron, ~~and~~ steel and other metal structures, boilers, pressure vessels and pipes, ships and other vessels.

Indicative Skill Level:

Most occupations in this unit group have a level of skill commensurate with the qualifications and experience outlined below.

In Australia:

- AQF Certificate III including at least two years of on-the-job training, or AQF Certificate IV (ANZSCO Skill Level 3)

In New Zealand:

- NZQF Level 4 qualification (ANZSCO Skill Level 3)

At least three years of relevant experience may substitute for the formal qualifications listed above. In some instances relevant experience and/or on-the-job training may be required in addition to the formal qualification.

Tasks Include:

- studying blueprints, drawings and specifications to determine job requirements
- selecting, cleaning and preparing metal stock
- cutting marked-out metal sections and shapes using hand tools, flame cutting torches and metal cutting machines
- shaping and bending metal sections and pipes using hand and machine tools, and by heating and hammering
- aligning parts to be joined using hand tools and measuring instruments
- joining metal sections using various welding techniques, bolting and riveting
- examining welds for width of bead, penetration and precision
- finishing products by cleaning, polishing, filing and bathing in acidic solutions
- cleaning and smoothing welds by filing, chiselling and grinding

Occupations:

- 322311 Metal Fabricator
- 322312 Pressure Welder
- 322313 Welder (First Class) (Aus) / Welder (NZ)

322311 Metal Fabricator

Marks off and fabricates structural steel and other metal stock to make or repair metal products and structures such as boilers and pressure vessels.

Skill Level: 3

Specialisations:

- Boilermaker-Welder
- ~~Brass Finisher~~
- ~~Metal Fabricator-Welder~~
- ~~Metal Template Maker~~
- ~~Structural Steel Trades Worker~~
- Pipefitter
- Welder-Fabricator

322312 Pressure Welder

Assembles, welds and repairs pressure vessels and pipes to relevant standards.

Skill Level: 3

322313 Welder (First Class) (Aus) / Welder (NZ)

Fabricates and repairs metal products using various welding techniques.

Skill Level: 3

Specialisation:

- Special Class Welder

3232 METAL FITTERS AND MACHINISTS

Metal Fitters and Machinists fit and assemble fabricated metal parts into products, set up machining tools, production machines and textile machines, and operate machining tools and machines to shape metal stock and castings.

Indicative Skill Level:

Most occupations in this unit group have a level of skill commensurate with the qualifications and experience outlined below.

In Australia:

- AQF Certificate III including at least two years of on-the-job training, or AQF Certificate IV (ANZSCO Skill Level 3)

In New Zealand:

- NZQF Level 4 qualification (ANZSCO Skill Level 3)

At least three years of relevant experience may substitute for the formal qualifications listed above. In some instances relevant experience and/or on-the-job training may be required in addition to the formal qualification.

Tasks Include:

- studying drawings and specifications to determine suitable material, method and sequence of operations, and machine settings
- fitting fabricated metal parts into products and assembling metal parts and subassemblies to produce machines and equipment
- checking fabricated and assembled metal parts for accuracy, clearance and fit using precision measuring instruments
- setting guides, stops and other controls on machining tools, setting up prescribed cutting and shaping tools and dies in machines and presses, and setting controls for textile machines
- forming metal stock and castings to fine tolerances using machining tools to press, cut, grind, plane, bore and drill metal
- cutting, threading, bending and installing hydraulic and pneumatic pipes and lines
- preparing pattern mechanisms to control the operation of textile machines used to spin, weave, knit, sew and tuft fabric
- diagnosing faults and performing operational maintenance of machines, and overhauling and repairing mechanical parts and fluid power equipment
- may erect machines and equipment on-site

Occupations:

- 323211 Fitter (General)
- 323212 Fitter and Turner
- 323213 Fitter-Welder

- 323214 Metal Machinist (First Class)
- 323215 Textile, Clothing and Footwear Mechanic
- 323299 Metal Fitters and Machinists nec

323211 Fitter (General)

Fits and assembles metal parts and subassemblies to fabricate production machines and other equipment.

[Diesel Mechanics and Plant Mechanics repairing light automotive vehicles and mobile plant are excluded from this occupation. Diesel Mechanics and Plant Mechanics repairing light automotive vehicles and mobile plant are included in Unit Group 3212 Motor Mechanics.](#)

Skill Level: 3

Specialisations:

- ~~Computer Numeric Control Setter~~
- Diesel Fitter-Mechanic
- Fitter-Machinist
- Fitter-Mechanic
- Locomotive Maintainer
- Maintenance Fitter
- Mechanic (Diesel and Heavy Earthmoving Equipment)
- Stationary Plant Mechanic

323212 Fitter and Turner

Fits, assembles, grinds and shapes metal parts and subassemblies to fabricate production machines and other equipment.

Skill Level: 3

Specialisation:

- Fitter Armament (Army)

323213 Fitter-Welder

Fits, assembles and welds metal parts and subassemblies to fabricate production machines and other equipment.

Skill Level: 3

323214 Metal Machinist (First Class)

Sets up and operates machine tools to shape and form metal stock and castings to fine tolerances, using detailed drawings and specifications.

Skill Level: 3

Specialisations:

- Aircraft Machinist
- Automotive Machinist
- Metal Machine Setter
- Metal Turner
- Milling Machinist
- Vertical Borer

323215 Textile, Clothing and Footwear Mechanic

Sets up, adjusts and maintains industrial or domestic sewing machines, or machines used in the production of yarn, textiles or footwear.

Skill Level: 3

Specialisations:

- Loom Tuner
- Sewing Machine Mechanic
- Textile Machine Mechanic

323299 Metal Fitters and Machinists nec

This occupation group covers Metal Fitters and Machinists not elsewhere classified.

Skill Level: 3

Occupations in this group include:

- Printing Engineer

3233 PRECISION METAL TRADES WORKERS

Precision Metal Trades Workers fabricate, assemble, maintain and repair metal precision instruments.

Indicative Skill Level:

Most occupations in this unit group have a level of skill commensurate with the qualifications and experience outlined below.

In Australia:

- AQF Certificate III including at least two years of on-the-job training, or AQF Certificate IV (ANZSCO Skill Level 3)

In New Zealand:

- NZQF Level 4 qualification (ANZSCO Skill Level 3)

At least three years of relevant experience may substitute for the formal qualifications listed above. In some instances relevant experience and/or on-the-job training may be required in addition to the formal qualification.

Registration or licensing may be required.

Tasks Include:

- assembling parts and subassemblies of precision instruments, locks, timepieces and firearms
- dismantling precision instruments, locks, timepieces and firearms, repairing and replacing defective parts, and reassembling articles using hand and power tools and specially designed machines
- inscribing letters, figures and designs on surfaces of jewellery, trophies and other ornamental items
- installing security systems, changing tumblers in locks, changing locks, cutting keys and opening locks by manipulation
- calibrating precision instruments using standard weights and measures, jigs and fixtures, and hand tools to adjust and align parts and small balancing weights
- making blades for circular, band and other power saws and repairing, setting and sharpening blades for hand and power saws
- testing circuits in electronic timepieces
- may estimate costs and prepare quotes for repairs

Occupations:

- 323311 Engraver
- 323312 Gunsmith
- 323313 Locksmith
- 323314 Precision Instrument Maker and Repairer

- 323315 Saw Doctor
- 323316 Watch and Clock Maker and Repairer

323311 Engraver

Inscribes letters, figures and designs on metal, glass, wood, rubber, plastic and other surfaces.

Skill Level: 3

323312 Gunsmith

Modifies, services and repairs rifles, revolvers and other firearms. Registration or licensing is required.

Skill Level: 3

323313 Locksmith

Installs and maintains locks and related security devices and systems. Registration or licensing is required.

Skill Level: 3

Specialisation:

- **Safemaker**

323314 Precision Instrument Maker and Repairer

Assembles, calibrates, installs and overhauls mechanical precision instruments and equipment.

Skill Level: 3

Specialisations:

- Camera Repairer
- Scalemaker
- Scientific Instrument Maker and Repairer

323315 Saw Doctor

Repairs, sets and sharpens blades for circular, band and other saws.

Skill Level: 3

Specialisation:

- Saw Sharpener

323316 Watch and Clock Maker and Repairer

Makes, repairs, cleans and adjusts watches and clocks.

Skill Level: 3

3311 BRICKLAYERS AND STONEMASONS

Bricklayers and Stonemasons lay bricks, pre-cut stones and other types of building blocks in mortar to construct and repair walls, [segmental paving](#), partitions, arches and other structures, and cut and shape hard and soft stone blocks and masonry slabs for the construction and renovation of stone structures and monumental masonry.

Indicative Skill Level:

Most occupations in this unit group have a level of skill commensurate with the qualifications and experience outlined below.

In Australia:

- AQF Certificate III including at least two years of on-the-job training, or AQF Certificate IV (ANZSCO Skill Level 3)

In New Zealand:

- NZQF Level 4 qualification (ANZSCO Skill Level 3)

At least three years of relevant experience may substitute for the formal qualifications listed above. In some instances relevant experience and/or on-the-job training may be required in addition to the formal qualification.

Registration or licensing may be required.

Tasks Include:

- studying plans and specifications to determine materials required, dimensions and installation procedures
- erecting and dismantling restricted height scaffolding
- sealing foundations with damp-resistant materials and spreading layers of mortar to serve as base and binder for blocks using trowels
- laying bricks in rows, designs and shapes, and spreading mortar between joints
- embedding blocks in mortar and removing excess mortar
- checking vertical and horizontal alignment
- cutting, shaping and polishing stones and bricks using machines and hand tools, and shaping bricks to fit irregular spaces
- repairing and maintaining bricks, cement blocks and related structures
- designing and cutting monumental masonry and lettering
- [constructing walls using stone slabs and large masonry slab blocks](#)
- [cutting, polishing, joining and installing stone kitchen benchtops](#)
- [may prepare base and bedding course and lay segmental paving](#)

Occupations:

- 331111 Bricklayer
- 331112 Stonemason

331111 Bricklayer

Alternative Title:

- Blocklayer

Lays bricks, pre-cut stone and other types of building blocks in mortar to construct and repair walls, partitions, arches, [segmental paving](#) and other structures. Registration or licensing may be required.

Skill Level: 3

Specialisations:

- ~~Chimney Builder~~
- [Brick Paver](#)
- Refractory Bricklayer
- ~~Retort Setter (Bricklaying)~~
- ~~Tuckpointer~~

331112 Stonemason

Cuts and shapes hard and soft stone blocks and masonry slabs to construct and renovate stone structures, [kitchen benchtops](#) and monumental masonry. Registration or licensing may be required.

Skill Level: 3

Specialisations:

- ~~Construction Stonemason~~
- Monumental Stonemason

3312 ~~Carpenters and Joiners~~ Carpentry, Joinery and Related Trades Workers

~~Carpenters and Joiners~~ Carpentry, Joinery and Related Trades Workers construct, erect, install, renovate and repair structures and fixtures made of wood, plywood, lightweight steel, wallboard and other materials, and cut, shape and fit timber parts to form structures and fittings.

Indicative Skill Level:

Most occupations in this unit group have a level of skill commensurate with the qualifications and experience outlined below.

In Australia:

- AQF Certificate III including at least two years of on-the-job training, or AQF Certificate IV (ANZSCO Skill Level 3)

In New Zealand:

- NZQF Level 4 qualification (ANZSCO Skill Level 3)

At least three years of relevant experience may substitute for the formal qualifications listed above. In some instances relevant experience and/or on-the-job training may be required in addition to the formal qualification.

Registration or licensing may be required.

Tasks Include:

- studying drawings and specifications to determine materials required, dimensions and installation procedures
- ordering and selecting timbers and materials, and preparing layouts
- cutting materials, and assembling and nailing cut and shaped parts
- erecting framework, panelised systems and roof framing, laying sub-flooring and floorboards and verifying trueness of structures
- nailing fascia panels, sheathing roofs, and fitting exterior wall cladding and door and window frames
- building concrete forms for bridges, tunnels, suspended slabs, beams, staircases, foundations and footings
- assembling prepared wood to form structures and fittings ready to install
- cutting wood joints
- works with timber, plastic laminates, perspex and metals
- ~~may construct concrete formwork~~
- may repair existing fittings
- ~~may work with plastic laminates, perspex and metals~~

Occupations:

- ~~331211 Carpenter and Joiner~~
- ~~331212 Carpenter~~
- 331213 Joiner
- 331214 Carpenter and Joiner
- 331215 Carpenter
- 331216 Formworker
- 331217 Shopfitter

~~331211 Carpenter and Joiner~~

~~Constructs and installs structures and fixtures of wood, plywood, and wallboard, and cuts, shapes and fits timber parts to form structures and fittings. Registration or licensing may be required.~~

~~Skill Level: 3~~

~~Specialisation:~~

- ~~Shopfitter~~

~~331212 Carpenter~~

~~Constructs, erects, installs, renovates and repairs structures and fixtures of wood, plywood, wallboard and other materials. Registration or licensing may be required.~~

~~Skill Level: 3~~

~~Specialisations:~~

- ~~Fixing Carpenter~~
- ~~Formwork Carpenter~~
- ~~Prop and Scenery Maker~~

331213 Joiner

Cuts, shapes and fits timber parts in workshops to form structures and fittings, ready for installation. Registration or licensing may be required.

Skill Level: 3

Specialisations:

- ~~Joinery Machinist~~
- ~~Joinery Patternmaker~~
- Joinery Setter-out
- Stairbuilder

331214 Carpenter and Joiner

Constructs and installs structures and fixtures of wood, plywood, and wallboard, and cuts, shapes and fits timber parts to form structures and fittings. Registration or licensing may be required.

Skill Level: 3

331215 Carpenter

Constructs, erects, installs, renovates and repairs structures and fixtures of wood, plywood, lightweight steel, wallboard and other materials. Registration or licensing may be required.

Skill Level: 3

Specialisations:

- Fixing Carpenter
- Prop and Scenery Maker
- Roof Carpenter

331216 Formworker

Alternative Title:

- Formwork Carpenter

Constructs, erects, installs and repairs temporary and permanent steel, wood and heavy plastic structures and moulds (formwork) to shape and hold wet concrete foundations and other concrete elements until they cure. Registration or licensing may be required.

Skill Level: 3

331217 Shopfitter

Fits out shops and other commercial premises by assembling and installing shopfronts, cabinets, showcases, counters and workstations. Registration or licensing may be required.

Skill Level: 3

3321 FLOOR FINISHERS

Floor Finishers measure, cut, install and repair soft and carpet, timber, vinyl, resilient resin and concrete floor coverings.

Indicative Skill Level:

Most occupations in this unit group have a level of skill commensurate with the qualifications and experience outlined below.

In Australia:

- AQF Certificate III including at least two years of on-the-job training, or AQF Certificate IV (ANZSCO Skill Level 3)

In New Zealand:

- NZQF Level 4 qualification (ANZSCO Skill Level 3)

At least three years of relevant experience may substitute for the formal qualifications listed above. In some instances relevant experience and/or on-the-job training may be required in addition to the formal qualification.

Registration or licensing may be required.

Tasks Include:

- measuring areas to be covered and consulting plans to estimate quantities of floor covering materials required
- preparing surfaces for covering and removing baseboard trims
- measuring, cutting and fixing underlay materials
- laying coverings, such as carpets, linoleum, parquet blocks, cork tiles and other resilient flooring materials, over floors, matching patterns, cutting shapes around fixtures and trimming edges
- securing floor coverings and fitting edge trims in doorways
- sanding, staining and applying finishing coatings to timber floors
- mixing and applying resin flooring systems
- may polish concrete floors
- may install wall, ceiling, counter and bench coverings

Occupation:

- 332111 Floor Finisher

332111 Floor Finisher

Measures, cuts, installs and repairs ~~soft and carpet, timber, vinyl,~~ resilient resin and concrete floor coverings. Registration or licensing may be required.

Skill Level: 3

Specialisations:

- Carpet Layer
- Floor Sander
- Timber Floor Installer
- Vinyl Layer
- ~~Parquetry Layer~~

3322 PAINTERS ~~ING TRADES WORKERS~~

Painters apply paint, varnish, wallpaper and other finishes to protect, maintain and decorate surfaces of buildings and structures. Painters (Visual Arts), Vehicle Painters and Industrial Spraypainters are excluded from this unit group.

Painters (Visual Arts) are included in Unit Group 2114 Visual Arts and Craft Professionals. Vehicle Painters are included in Unit Group 3243 Vehicle Painters. Industrial Spraypainters are included in Unit Group 7112 Industrial Spraypainters

Indicative Skill Level:

Most occupations in this unit group have a level of skill commensurate with the qualifications and experience outlined below.

In Australia:

- AQF Certificate III including at least two years of on-the-job training, or AQF Certificate IV (ANZSCO Skill Level 3)

In New Zealand:

- NZQF Level 4 qualification (ANZSCO Skill Level 3)

At least three years of relevant experience may substitute for the formal qualifications listed above. In some instances relevant experience and/or on-the-job training may be required in addition to the formal qualification.

Registration or licensing may be required.

Tasks Include:

- erecting scaffolding and ladders, and placing drop sheets to protect adjacent areas from paint splattering
- preparing surfaces by removing old paint and wallpaper, fixing woodwork, filling holes and cracks, and smoothing and sealing surfaces
- selecting and preparing paints to required colours by mixing portions of pigment, oil, and thinning and drying additives
- applying paints, varnishes and stains to surfaces using brushes, rollers and sprays
- hanging wallpaper, matching patterns and trimming edges
- cleaning equipment and work areas
- may repair windows and replace glass in wooden and metal frames
- ~~may lay and repair wall and floor tiles~~

Occupation:

- 332211 ~~Painting Trades Worker~~

332211 ~~Painting Trades Worker~~

Alternative Titles:

- Painter and Decorator

Applies paint, varnish, wallpaper and other finishes to protect, maintain and decorate surfaces of buildings and structures. Registration or licensing may be required.

Skill Level: 3

Specialisation:

- House Painter
- ~~Paperhanger~~

3331 GLAZIERS

Glaziers measure, cut, finish, fit and install flat glass and mirrors.

Autoglaziers are excluded from this occupation. Autoglaziers are included in Unit Group 8994 Motor Vehicle Parts and Accessories Fitters, in Occupation 899412 Autoglazyer.

Indicative Skill Level:

Most occupations in this unit group have a level of skill commensurate with the qualifications and experience outlined below.

In Australia:

- AQF Certificate III including at least two years of on-the-job training, or AQF Certificate IV (ANZSCO Skill Level 3)

In New Zealand:

- NZQF Level 4 qualification (ANZSCO Skill Level 3)

At least three years of relevant experience may substitute for the formal qualifications listed above. In some instances relevant experience and/or on-the-job training may be required in addition to the formal qualification.

Tasks Include:

- determining type and dimensions of glass required
- laying glass over patterns on padded tables and in jigs
- measuring and marking glass for cutting
- examining glass and marking defective areas
- cutting along patterns and templates
- breaking off sheets and excess glass with notched tools and glass pliers
- installing glass and mirrors in windows, skylights, display cases, interior walls and ceilings
- smoothing rough edges using belt sanders and smoothing wheels
- may coat, cut, etch, trim and treat glass to achieve special effects

Occupation:

- 333111 Glazier

333111 Glazier

Measures, cuts, finishes, fits and installs flat glass and mirrors.

Skill Level: 3

Specialisations:

- ~~Glass Beveller~~
- ~~Glass Embosser~~
- ~~Glass Etcher~~
- ~~Glass Silverer~~

3332 PLASTERERS AND RENDERERS

Plasterers and Renderers apply and fix plasterboard partitions, suspended ceilings, fire rating systems, acoustic tiles/ceiling panels, and composite wall linings to buildings, and apply decorative and protective coverings of plaster, cement and similar materials to the interiors and exteriors of structures.

Indicative Skill Level:

Most occupations in this unit group have a level of skill commensurate with the qualifications and experience outlined below.

In Australia:

- AQF Certificate III including at least two years of on-the-job training, or AQF Certificate IV (ANZSCO Skill Level 3)

In New Zealand:

- NZQF Level 4 qualification (ANZSCO Skill Level 3)

At least three years of relevant experience may substitute for the formal qualifications listed above. In some instances relevant experience and/or on-the-job training may be required in addition to the formal qualification.

Registration or licensing may be required.

Tasks Include:

- determining plasterboard layout, and installing insulation and vapour barriers
- measuring, marking and cutting plasterboard, lifting and positioning panels/plasterboard, and securing them to walls, ceilings and battens
- preparing corner beads and securing them in position
- fixing pre-cast plaster and paper cornices, panel mouldings, ceiling centres and other plaster fittings
- covering joints and nail holes/screw fixings with wet plaster and sealing compounds, and smoothing them using wet brushes and sandpaper
- mixing and applying coats of plaster, cement and render to structures using trowels, and levelling and smoothing coats to uniform thickness
- plumbing and straightening corners, angles and wall and ceiling surfaces
- creating decorative textures in finishing coats
- applying and finishing acoustic, insulating and fireproofing materials ~~bonded with plaster, plastic cement and similar materials~~

Occupations:

- 333211 ~~Fibrous~~Plasterer (Wall and Ceiling)
- 333212 ~~Solid Plasterer~~Renderer (Solid Plaster)

333211 ~~Fibrous~~Plasterer (Wall and Ceiling)

Alternative Titles:

- Drywall Plasterer
- Wall and Ceiling Fixer

Applies and fixes plasterboard partitions, suspended ceilings, fire rating systems, acoustic ~~tiles~~ceiling panels, and composite wall linings to buildings. Registration or licensing may be required.

Skill Level: 3

Specialisation:

- Ceiling Fixer
- ~~Dry Wall Plasterer~~

333212 Renderer (Solid Plaster)~~er~~

Alternative Title:

- Solid Plasterer

Applies decorative and protective coverings of plaster, cement and similar materials to the interiors and exteriors of structures. Registration or licensing may be required.

Skill Level: 3

3333 ROOF TILERS

Roof Tilers cover roofs with tiles, sheets and shingles to form a waterproof surface.

[Roof Plumbers \(installers of sheetmetal roofing and guttering\) are excluded from this occupation. Roof Plumbers are included in Unit Group 3341 Plumbers, in Occupation 334115 Roof Plumber.](#)

Indicative Skill Level:

Most occupations in this unit group have a level of skill commensurate with the qualifications and experience outlined below.

In Australia:

- AQF Certificate III including at least two years of on-the-job training, or AQF Certificate IV (ANZSCO Skill Level 3)

In New Zealand:

- NZQF Level 4 qualification (ANZSCO Skill Level 3)

At least three years of relevant experience may substitute for the formal qualifications listed above. In some instances relevant experience and/or on-the-job training may be required in addition to the formal qualification.

Registration or licensing may be required.

Tasks Include:

- studying drawings, specifications and work sites to determine materials required
- erecting ladders and scaffolds
- placing and securing waterproof sheets over eaves
- nailing and stapling roofing underlay to roofs
- aligning starter rows of roofing material with edges of roofs, securing with wire, staples and nails, and overlapping successive layers of tiles
- sizing and cutting roofing material to fit around vents, chimney edges, corners and ridges
- fixing edge and ridge tiles in cement mortar
- slipping roofing material under prefabricated flashing and nailing it down
- caulking and flashing exposed nail heads to prevent leaks

Occupation:

- 333311 Roof Tiler

333311 Roof Tiler

Cover roofs with tiles, sheets and shingles to form a waterproof surface. Registration or licensing may be required.

Skill Level: 3

Specialisations:

- Roof Fixer
- Roof Shingler
- Roof Slater

3334 WALL AND FLOOR TILERS

Wall and Floor Tilers lay ceramic, clay, slate, marble and glass tiles on external and internal walls and floors to provide protective and decorative finishes.

Indicative Skill Level:

Most occupations in this unit group have a level of skill commensurate with the qualifications and experience outlined below.

In Australia:

- AQF Certificate III including at least two years of on-the-job training, or AQF Certificate IV (ANZSCO Skill Level 3)

In New Zealand:

- NZQF Level 4 qualification (ANZSCO Skill Level 3)

At least three years of relevant experience may substitute for the formal qualifications listed above. In some instances relevant experience and/or on-the-job training may be required in addition to the formal qualification.

Registration or licensing may be required.

Tasks Include:

- examining plans, measuring and marking surfaces and laying out work
- preparing wall and floor surfaces by removing old tiles, grout and adhesive, filling holes and cracks, and cleaning surfaces
- spreading adhesive onto prepared surfaces and tiles, and setting tiles in position
- using tile-cutting tools to cut and shape tiles needed for edges and corners, and around objects such as fittings and pipes
- ensuring tiles are correctly aligned and spaced
- grouting tiles, and cleaning and removing excess grout
- applying waterproofing systems
- may lay floors of granolithic, terrazzo, cement or similar composition
- may lay coloured tiles in patterns to create mosaics

Occupation:

- 333411 Wall and Floor Tiler

333411 Wall and Floor Tiler

Lays ceramic, clay, slate, marble and glass tiles on external and internal walls and floors to provide protective and decorative finishes. Registration or licensing may be required.

Skill Level: 3

Specialisations:

- Ceramic Tiler
- ~~Mosaic Tiler~~
- Pool Tiler

3341 PLUMBERS

Plumbers install, maintain and repair pipes, drains, guttering and metal roofing, mechanical services and related equipment for water supply, gas, drainage, sewerage, heating, cooling and ventilation systems.

Indicative Skill Level:

Most occupations in this unit group have a level of skill commensurate with the qualifications and experience outlined below.

In Australia:

- AQF Certificate III including at least two years of on-the-job training, or AQF Certificate IV (ANZSCO Skill Level 3)

In New Zealand:

- NZQF Level 4 qualification (ANZSCO Skill Level 3)

At least three years of relevant experience may substitute for the formal qualifications listed above. In some instances relevant experience and/or on-the-job training may be required in addition to the formal qualification.

Registration or licensing is required.

Tasks Include:

- studying blueprints, drawings and specifications to determine the layout of plumbing systems and materials required
- setting out and installing hot and cold water systems and associated equipment
- installing water-based fire protections systems, including fire hydrants, hose reels and sprinkler systems
- designing and installing sanitary plumbing and water supply systems, discharge pipes and sanitary fixtures
- fabricating and installing soil and waste stacks
- assembling and installing mechanical services plant, air handling and conditioning equipment and small bore heating systems
- installing sewerage and effluent pumping equipment and disposal systems
- installing below-ground drainage systems and associated ground support systems
- installing, maintaining and repairing gas mains, piping systems downstream of the billing meter, and appliances and ancillary equipment associated with the use of fuel gases
- installing gas appliances, flues and pressure regulating devices
- fabricating and installing metal roofing, rainwater goods and flashings

Occupations:

- 334111 Plumber (General)

- 334112 Airconditioning and Mechanical Services Plumber
- 334113 Drainer ~~/Drainlayer~~
- 334114 Gasfitter
- 334115 Roof Plumber
- 334116 Plumber (General)
- 334117 Fire Protection Plumber

334111 Plumber (General)

~~Installs and repairs water, drainage, gas and sewerage pipes and systems. Registration or licensing is required.~~

~~Skill Level: 3~~

~~Specialisations:~~

- ~~• Fire Services Plumber~~
- ~~• Sanitary Plumber~~
- ~~• Water Plumber~~

334112 Airconditioning and Mechanical Services Plumber

Installs, maintains and repairs piping, ducting and equipment for heating, cooling and ventilation of buildings or vessels. Registration or licensing is required.

Skill Level: 3

Specialisation:

- ~~Duct Fixing Plumber~~

334113 Drainer ~~/Drainlayer~~

Alternative Title:

- Plumber and Drainer

Installs, maintains and designs below-ground drainage systems and associated sewerage or effluent disposal systems. Registration or licensing is required.

Skill Level: 3

Specialisation:

- ~~Septic Tank Installer~~

334114 Gasfitter

Alternative Title:

- Plumber and Gasfitter

Installs, maintains and repairs gas mains, piping systems downstream of the billing meter, and appliances and ancillary equipment associated with the use of fuel gases, including liquefied petroleum gas systems. Registration or licensing is required.

Skill Level: 3

Specialisations:

- ~~Gas Main and Line Fitter~~
- ~~Liquefied Petroleum Gasfitter~~

334115 Roof Plumber

Installs, maintains and repairs flashings, metallic roof and wall claddings and rainwater products such as gutters and downpipes. Registration or licensing is required.

Roof Tilers are excluded from this occupation. Roof Tilers are included in Unit Group 3333 Roof Tilers, in Occupation 333311 Roof Tiler.

Skill Level: 3

Specialisation:

- Fascia and Guttering Installer
- ~~Industrial Roof Plumber~~

334116 Plumber (General)

Installs and repairs water, drainage, gas and sewerage pipes and systems other than water-based fire protection systems. Registration or licensing is required.

Skill Level: 3

334117 Fire Protection Plumber

Installs, tests, services and repairs water-based fire protection systems, including fire hydrants, hose reels and sprinkler systems. Registration or licensing is required.

Fire Alarm Technicians and Fire Protection Equipment Technicians are excluded from this occupation. Fire Alarm Technicians are included in Unit Group 3423 Electronics Trades Workers, in Occupation 342313 Electronic Equipment Trades Worker. Fire Protection Equipment Technicians are

included in Unit Group 3999 Other Miscellaneous Technicians and Trades Workers, in Occupation 399918 Fire Protection Equipment Technician.

Skill Level: 3

Specialisations:

- Sprinkler Fitter

3941 CABINET AND FURNITURE MAKERS

~~Cabinetmakers~~ Cabinet and Furniture Makers fabricate and install cabinetry, and fabricate, assemble and repair wooden and cane furniture, and fit and assemble prepared wooden parts to make furniture.

Indicative Skill Level:

Most occupations in this unit group have a level of skill commensurate with the qualifications and experience outlined below.

In Australia:

- AQF Certificate III including at least two years of on-the-job training, or AQF Certificate IV (ANZSCO Skill Level 3)

In New Zealand:

- NZQF Level 4 qualification (ANZSCO Skill Level 3)

At least three years of relevant experience may substitute for the formal qualifications listed above. In some instances relevant experience and/or on-the-job training may be required in addition to the formal qualification.

Tasks Include:

- examining drawings, work orders and sample parts to determine specifications
- selecting and working with materials such as timber, veneers, particle board and synthetic wood
- programming and controlling computer-aided design and computer numerical control machines to mark out, cut and shape~~marking out, cutting and shaping~~ wood
- working from drawings and specifications to make cabinets and furniture
- installing cabinetry in bathrooms and kitchens and fittings in shops
- making fittings for boats, caravans and other items where fine detail is required
- assembling parts to form sections of cabinets and furniture and completed articles
- applying protective coatings to cabinets and furniture
- fitting hinges, locks, catches, drawers and shelves
- making frames for chairs and couches
- may repair and refurbish furniture and antiques

Occupation:

- 394111 Cabinetmaker
- 394112 Cabinet Maker
- 394113 Furniture Maker

394111 Cabinetmaker

~~Fabricates or repairs wooden furniture, and fits and assembles prepared wooden parts to make furniture.~~

~~Skill Level: 3~~

~~Specialisations:~~

- ~~• Antique Furniture Reproducer~~
- ~~• Antique Furniture Restorer~~
- ~~• Chair and Couch Maker~~
- ~~• Coffin Maker~~

394112 Cabinet Maker

Fabricates, assembles and installs kitchen and bathroom cabinetry, and wardrobes, counters and other fittings from wood and laminates.

Skill Level: 3

Specialisations:

- Cabinet Installer
- Kitchen Installer
- Wardrobe Installer

394113 Furniture Maker

Fabricates and repairs freestanding furniture from timber, veneers, laminates and cane.

Furniture Finishers are excluded from this occupation. Furniture Finishers are included in Unit Group 3942 Wood Machinists and Other Wood Trades Workers, in Occupation 394211 Furniture Finisher.

Skill Level: 3