

MAJOR GROUP 3 *continued*

UNIT GROUP 3129 OTHER BUILDING AND ENGINEERING TECHNICIANS

This unit group covers Building and Engineering Technicians not elsewhere classified.

It includes Maintenance Planners, Metallurgical or Materials Technicians, and Mine Deputies.

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 Associate Degree, Advanced Diploma or Diploma (ANZSCO Skill Level 2)

In New Zealand:

NZ Register Diploma (ANZSCO Skill Level 2)

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.

Occupations:

- 312911 Maintenance Planner
- 312912 Metallurgical or Materials Technician
- 312913 Mine Deputy
- 312999 Building and Engineering Technicians nec

312911 MAINTENANCE PLANNER

Alternative Titles:

- Maintenance Scheduler
- Shutdown Coordinator
- Shutdown Planner

Develops maintenance planning strategies, and schedules, coordinates and monitors the maintenance of all plant equipment.

Skill Level: 2

UNIT GROUP 3129 OTHER BUILDING AND ENGINEERING TECHNICIANS

continued

312912 METALLURGICAL OR MATERIALS TECHNICIAN

Tests materials as part of mineral and metal processing and refining, or for research into metals, ceramics, polymers and other materials in support of Metallurgists and Materials Engineers. Registration or licensing may be required.

Skill Level: 2

Specialisations:

- Dye Penetrant Testing Technician
- Heat Treatment Technician
- Magnetic Testing Technician
- Metallurgy Laboratory Technician
- Non-destructive Testing Technician
- Petroleum Products Laboratory Technician
- Petroleum Refinery Laboratory Technician
- Pressure Testing Technician
- Ultrasound Technician

312913 MINE DEPUTY

Oversees the safety of mining operations and supervises Miners. Registration or licensing is required.

Skill Level: 2

Specialisations:

- Mining Technician
- Open Cut Examiner

312999 BUILDING AND ENGINEERING TECHNICIANS NEC

This occupation group covers Building and Engineering Technicians not elsewhere classified. Registration or licensing may be required.

Skill Level: 2

Occupations in this group include:

- Aircraft Detail Draftsperson
- Aircraft Systems Technician (Air Force)
- Airframe Technical Officer
- Avionics Systems Technician (Air Force)
- Biomedical Engineering Associate
- Mining Detail Draftsperson
- Shipbuilding Draftsperson

SUB-MAJOR GROUP 33 CONSTRUCTION TRADES WORKERS

CONSTRUCTION TRADES WORKERS construct and repair buildings and other structures, apply final finishes such as plaster, painting and flooring, make and install glass products, and provide plumbing, drainage and mechanical services.

Indicative Skill Level:

Most occupations in this sub-major 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:

NZ Register 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 plans, and estimating quantities of materials required
- laying bricks and blocks, spreading mortar between joints, and removing excess mortar
- erecting frameworks, roof frames, roofs and walls
- laying flooring, carpets and tiles
- painting and wallpapering surfaces
- applying plaster and cement coatings to walls
- building and installing fittings
- making and installing glass products
- installing plumbing and drainage systems, guttering and other rainwater systems
- installing gas appliances and airconditioning piping and ducting

Occupations in this sub-major group are classified into the following minor groups:

- 331 Bricklayers, and Carpenters and Joiners
- 332 Floor Finishers and Painting Trades Workers
- 333 Glaziers, Plasterers and Tilers
- 334 Plumbers

MINOR GROUP 331 BRICKLAYERS, AND CARPENTERS AND JOINERS

BRICKLAYERS, CARPENTERS AND JOINERS construct and erect buildings and other structures of brick, stone and timber.

Indicative Skill Level:

Most occupations in this minor 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:

NZ Register 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 plans and specifications to determine materials required, dimensions and installation procedures
- erecting frameworks, roof framing and scaffolding, and laying sub-floors and floorboards
- operating machines and hand tools to cut and shape stones, bricks and timber
- laying bricks and stone blocks in rows and securing with mortar to construct walls
- assembling prepared wood to form structures ready to install
- nailing fascia panels, sheathing roofs, and fitting wall cladding and door and window frames
- checking vertical and horizontal alignment

Occupations in this minor group are classified into the following unit groups:

3311 Bricklayers and Stonemasons

3312 Carpenters and Joiners

UNIT GROUP 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, 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:

NZ Register 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

Occupations:

331111 Bricklayer

331112 Stonemason

MAJOR GROUP 3 *continued*

UNIT GROUP 3311 BRICKLAYERS AND STONEMASONS *continued*

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 and other structures. Registration or licensing may be required.

Skill Level: 3

Specialisations:

Arch Builder

Chimney Builder

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 and monumental masonry. Registration or licensing may be required.

Skill Level: 3

Specialisations:

Construction Stonemason

Monumental Stonemason

UNIT GROUP 3312 CARPENTERS AND JOINERS

CARPENTERS AND JOINERS construct, erect, install, renovate and repair structures and fixtures made of wood, plywood, 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:

NZ Register 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 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
- assembling prepared wood to form structures and fittings ready to install
- cutting wood joints
- 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

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

MAJOR GROUP 3 *continued*

UNIT GROUP 3312 CARPENTERS AND JOINERS *continued*

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

MINOR GROUP 332 FLOOR FINISHERS AND PAINTING TRADES WORKERS

FLOOR FINISHERS AND PAINTING TRADES WORKERS install and repair soft and resilient floor coverings, and apply paint, varnish, wallpaper and other finishes to protect, maintain and decorate the surfaces of buildings and structures.

Indicative Skill Level:

Most occupations in this minor 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:

NZ Register 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:

- measuring areas to be covered and consulting plans to estimate quantities of floor covering materials required
- preparing surfaces by removing old floor coverings, paint and wallpaper, fixing woodwork, filling holes and cracks, smoothing and sealing surfaces, and removing baseboard trims
- measuring, cutting and fixing underlay materials
- laying underlay and covering materials on floors, matching patterns, cutting shapes around fixtures and trimming edges
- selecting and preparing paints to required colours by mixing portions of pigment, oil, thinning and drying additives
- applying paints, varnishes and stains to surfaces using brushes, rollers and sprays, and hanging wallpaper

Occupations in this minor group are classified into the following unit groups:

3321 Floor Finishers

3322 Painting Trades Workers

UNIT GROUP 3321 FLOOR FINISHERS

FLOOR FINISHERS measure, cut, install and repair soft and resilient 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:

NZ Register 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
- may install wall, ceiling, counter and bench coverings

Occupation:

332111 Floor Finisher

332111 FLOOR FINISHER

Measures, cuts, installs and repairs soft and resilient floor coverings. Registration or licensing may be required.

Skill Level: 3

Specialisations:

Carpet Layer

Parquet Layer

UNIT GROUP 3322 PAINTING TRADES WORKERS

PAINTING TRADES WORKERS apply paint, varnish, wallpaper and other finishes to protect, maintain and decorate surfaces of buildings and 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:

NZ Register 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

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:

Paperhanger

MINOR GROUP 333 GLAZIERS, PLASTERERS AND TILERS

GLAZIERS, PLASTERERS AND TILERS cut and install flat glass, apply plaster and secure plasterboard and suspended ceilings, and lay tiles on roofs, walls and floors.

Indicative Skill Level:

Most occupations in this minor 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:

NZ Register 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 taking measurements to determine materials required
- preparing surfaces and materials by removing old tiles, grout and adhesive, mixing plaster and cement, and marking and cutting glass
- installing glass and mirrors in windows, skylights, display cases, interior walls and ceilings
- measuring, marking and cutting plasterboard, lifting and positioning panels, and securing them to walls, ceilings and battens
- applying coats of plaster to structures using trowels, and levelling and smoothing coats to uniform thickness
- aligning starter rows of roofing material with edges of roofs, securing with wire, staples or nails, and overlapping successive layers of tiles
- spreading adhesive onto prepared surfaces and tiles, and setting tiles in position
- grouting tiles, and ensuring surfaces are waterproof

Occupations in this minor group are classified into the following unit groups:

- 3331 Glaziers
- 3332 Plasterers
- 3333 Roof Tilers
- 3334 Wall and Floor Tilers

UNIT GROUP 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:

NZ Register 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 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 (Aus) / Drainlayer (NZ)
- 334114 Gasfitter
- 334115 Roof 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

MAJOR GROUP 3 *continued*

UNIT GROUP 3341 PLUMBERS *continued*

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:

Ductfixing Plumber

334113 DRAINER (AUS) / DRAINLAYER (NZ)

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

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.

Skill Level: 3

Specialisation:

Industrial Roof Plumber