MSMENV272 - Participate in environmentally sustainable work practices
This unit This unit of competency covers the skills and knowledge required to effectively find out current resource use and carry out improvements, in own work area, including those that reduce the negative environmental impacts of work practices.

Status: Core
Prerequisites: Nil
Elements
- Identify current resource use and environmental issues
- Comply with environmental regulations
- Seek opportunities to improve environmental practices and resource efficiency

MSMOPS101 - Make measurements
This unit This unit of competency covers the skills and knowledge required to use physical and/or chemical measuring equipment to make or take routine measurements and keep records related to the measurements.

Status: Core
Prerequisites: Nil
Elements
- Identify appropriate measurements
- Perform measurements
- Record measurements as required
- Respond to routine problems in accordance with procedures

MSMSUP100 - Apply workplace context to own job
This unit This unit of competency covers the skills and knowledge required to complete own work activities.

Status: Core
Prerequisites: Nil
Elements
- Identify industry sector
- Identify products and customers
- Recognise plant structure and processes
- Identify own workplace responsibilities
- Follow workplace procedures
- Recognise quality requirements
- Plan and follow a personal daily routine
MSMSUP101 - Clean workplace or equipment
This unit This unit of competency covers the skills and knowledge required for general housekeeping duties as well as the cleaning of plant and equipment. It covers identifying requirements and standards for the work and scheduling and performance of housekeeping activities to maintain standards.

Status: Core
Prerequisites: Nil
Elements
- Identify housekeeping requirements
- Perform general housekeeping duties
- Clean plant and equipment
- Dispose of waste materials

MSMSUP102 - Communicate in the workplace
This unit This unit of competency covers the skills and knowledge required to receive, relay and record written and oral messages and to provide relevant information in response to requests within timelines.

Status: Core
Prerequisites: Nil
Elements
- Receive and relay messages
- Interpret messages
- Respond to request for information
- Complete workplace forms

MSMSUP200 - Achieve work outcomes
This unit This unit of competency covers the skills and knowledge required to identify and implement actions to achieve workplace targets and to suggest ways to improve processes.

Status: Core
Prerequisites: Nil
Elements
- Identify key aspects of the process
- Implement actions to achieve targets
- Participate in an improvement activity in accordance with organisation procedures
MSMWHS200 - Work safely
This unit This unit of competency covers the skills and knowledge required to apply workplace policies and procedures to maintain a safe work environment for self and others.
The unit of competency covers identifying work health and safety (WHS) hazards, assessing risk and following safety procedures in the workplace with minimal supervision.
Compliance with legislative requirements and duty of care are embedded in this unit through workplace instructions and procedures. Workers will be provided with clear directions, information, instruction, training and appropriate supervision regarding the relevant state/territory WHS legislation, codes of practice, relevant industry standards, workplace procedures and work instructions.

Status: Core
Prerequisites: Nil

Elements
- Identify hazards and assess risk
- Follow procedures for risk control
- Follow emergency procedures
- Initiate suggestions to enhance task/job-specific safety
- Apply knowledge of WHS legislation and the organisation WHS policies and procedures

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PMAOPS101 - Read dials and indicators
This unit This unit of competency covers the skills and knowledge required to make readings and/or take measurements using common types of plant instrumentation.

Status: Core
Prerequisites: Nil

Elements
- Contribute to controlling hazards in work area
- Identify appropriate measuring device readings
- Perform measurements
- Record results

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MSMOPS400 - Optimise process/plant area
This unit This unit of competency covers the skills and knowledge required to optimise the process performance of a complete process, plant area or system. It requires optimising a more significant portion of a plant than would be required for one of the PMAOPS3## series. It also requires a more strategic approach to the optimisation than the routine, day-to-day optimisation undertaken as a routine part of plant operation. The optimisation may, or may not involve capital expenditure.
It includes ensuring that the process/plant area complies with health, safety and environment (HSE) requirements, that process, plant and equipment improvement is planned and carried out, and that problems are solved to meet operational needs and ensure that production of finished goods meets customer requirements. It includes all items of equipment and unit operations which form part of the production process of a complete area.

Status: Elective "A"
Prerequisites: Nil

Elements
- Analyse and evaluate current plant, equipment and processes
- Develop plan for corrective and/or optimisation action
- Coordinate corrective and/or optimisation action plan
- Develop continuous improvement strategies

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MSMOPS401 - Trial new process or product

This unit This unit of competency covers the skills and knowledge required to take a lead technical role in the trialling of a new or significantly altered product or process. The new/changed product/process has been independently developed and its development is not part of this unit.

Status: Elective "A"
Prerequisites: Nil

Elements
- Contribute to the selection of equipment/ process conditions
- Prepare for trials
- Conduct trials
- Evaluate results and identify modifications

PMAOPS402 - Respond to abnormal process situations

This unit This unit of competency covers the skills and knowledge required to recognise and resolve abnormal process situations that are complex and/or not solvable by direct observation. The problem would normally impact an entire plant system or process. Examples include damage to/wear of tower trays, internal leaks of heat exchangers and collapse of/channelling in tower/column/vessel packing.

Status: Elective "A"
Prerequisites: MSMSUP390

Elements
- Recognise there is a problem
- Define the problem
- Develop solution

MSMENV472 - Implement and monitor environmentally sustainable work practices

This unit This unit of competency covers the skills and knowledge required to effectively analyse the workplace in relation to environmentally sustainable work practices, and to implement improvements and monitor their effectiveness.

Status: Elective "B1"
Prerequisites: Nil

Elements
- Investigate current practices in relation to resource usage
- Set targets for improvements
- Implement performance improvement strategies
- Monitor performance
MSMWHS400 - Contribute to WHS management system

This unit This unit of competency covers the skills and knowledge required to contribute to the work health and safety (WHS) management system.

The WHS management system will already have been developed by persons with the relevant specialist knowledge and skills.

Status: Elective "B1"
Prerequisites: Nil

Elements
- Develop and review procedures for identifying hazards, and assessing and controlling risk
- Develop and review incident procedures
- Implement and review training program from an WHS perspective
- Implement and review WHS recording system

MSMWHS401 - Assess risk

This unit This unit of competency covers the skills and knowledge required to identify hazards and operability problems and then analyse them by hazard analysis techniques to assess risk.

This unit of competency is a specialist unit requiring technical knowledge and is suitable for plant technicians and people in similar roles.

A team with a broad knowledge of the system and its operation will carry out the analysis. It is expected that the risk assessment processes are already defined for the enterprise and that the risk acceptance criteria have already been established. The team will be steered by engineering experts or risk assessment specialists in the industry.

Status: Elective "B1"
Prerequisites: Nil

Elements
- Identify hazards and potential operability problems
- Assess impact of risk and determine alternative strategies
- Assess risk information against established risk criteria in risk management plan
- Develop a risk register
- Establish and maintain procedures for identifying hazards, and assessing and controlling risk

MEM09002B - Interpret technical drawing

This unit This unit covers interpreting technical drawing applying to any of the full range of engineering disciplines.

Status: Elective "B2"
Prerequisites: Nil

Elements
- Select correct technical drawing
- Interpret technical drawing
MSL952001 - Collect routine site samples
This unit This unit of competency covers the ability to collect samples at field or production sites using specified equipment and standard or routine procedures.

Status: Elective "B2"
Prerequisites: Nil

Elements
- Prepare for sampling
- Conduct sampling
- Finalise sampling
- Maintain a safe work environment

MSL973001 - Perform basic tests
This unit This unit of competency covers the ability to prepare samples and perform tests and measurements using standard methods with access to readily available advice from supervisors.

Status: Elective "B2"
Prerequisites: Nil

Elements
- Interpret test requirements
- Prepare sample
- Check equipment before use
- Perform tests on samples
- Maintain a safe work environment

MSL974005 - Perform physical tests
This unit This unit of competency covers the ability to interpret physical test requirements, prepare samples, conduct pre-use and calibration checks on equipment and perform routine physical tests. These tests will involve several measurement steps. The unit includes data processing and interpretation of results and tracking of obvious test malfunctions where the procedure is standardised. However, personnel are not required to analyse data, optimise tests or procedures for specific samples or troubleshoot equipment problems where the solution is not apparent.

Status: Elective "B2"
Prerequisites: Nil

Elements
- Interpret and schedule test requirements
- Receive and prepare samples
- Check equipment before use
- Test samples to determine physical properties
- Process and interpret data
- Maintain a safe work environment
- Maintain laboratory records
MSMOPS100 - Use equipment

This unit This unit of competency covers the skills and knowledge required to use an item of equipment which is operated with limited application of knowledge.

Status: Elective "B2"
Prerequisites: Nil

Elements
- Follow workplace procedures
- Monitor and use the equipment/process

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MSMOPS200 - Operate equipment

This unit This unit of competency covers the skills and knowledge required to operate a single unit operation/plant item/item of equipment. It is for items of equipment/plant items/unit operations which are not otherwise covered in this Training Package and may be organisation specific.

Status: Elective "B2"
Prerequisites: Nil

Elements
- Prepare for work
- Operate equipment/plant item
- Recognise and take appropriate action on abnormal situations
- Isolate and de-isolate equipment/plant item in accordance with procedures

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MSMOPS212 - Use enterprise computers or data systems

This unit This unit of competency covers the skills and knowledge required to use organisation computers or data systems in order to work effectively.

Status: Elective "B2"
Prerequisites: Nil

Elements
- Identify applications of computer or data system for work role
- Use the computer or data system
- Save file and exit system
- Respond to routine problems with the system

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MSMPER200 - Work in accordance with an issued permit

This unit This unit of competency covers the skills and knowledge required to work in accordance with an issued permit. It aims to ensure that people working under a permit to work understand the system, know the limitations of the permit under which they are working and comply with all the requirements of the permit. The people to whom this unit applies may be called 'permit recipients' or 'permit holders' by some organisations. Some organisations call 'permits' 'clearances'.

Status: Elective "B2"
Prerequisites: Nil

Elements
- Apply for permit
- Identify the scope of the permit
- Prepare for permitted work
- Work in accordance with an issued permit
- Complete permit to work

MSMPER201 - Monitor and control work permits

This unit This unit of competency covers the skills and knowledge required to monitor a work situation in which the activity is conducted under a permit to work. The individual will be required to monitor the work situation for conformance to the permit and immediately intervene if the parameters of the permit are not met or work proceeds outside the boundaries set by the permit.

Status: Elective "B2"
Prerequisites: Nil

Elements
- Identify and monitor permit conditions
- Control work permit systems
- Identify and action non-compliance
- Confirm compliance with permit

MSMPER202 - Observe permit work

This unit This unit of competency covers the skills and knowledge required to undertake the safety observer role for permits requiring a safety observer. This role may also be called a hole watcher or a fire watcher. Safety observers can stop permit work, but do not have the authority to restart it.

Status: Elective "B2"
Prerequisites: Nil

Elements
- Prepare for the job
- Control the permit site
- Take appropriate action for potential incident
- Complete safety observer role
MSMPER205 - Enter confined space

This unit This unit of competency is required by persons who are required to enter a confined space, as defined by the Australian Standard AS 2865-2009 Confined spaces, or its authorised update or replacement.

Status: Elective "B2"
Prerequisites: MSMPER200
Elements
- Assess confined space for entry
- Use safety equipment and personal protective equipment (PPE)
- Work in accordance with confined space requirements
- Conclude confined space operations in accordance with procedures

MSMPER300 - Issue work permits

This unit This unit of competency covers the skills and knowledge required to issue work permits. It covers an understanding of the permit system and the limitations of each permit, and making decisions regarding the need for and correct use of each permit. This unit includes the issue of any and all permits. Permits are called ‘clearances’ by some organisations.

Status: Elective "B2"
Prerequisites: MSMWHS201
Elements
- Identify need for work permit
- Ensure job site is prepared for authorised work
- Raise and issue work permits
- Monitor work for compliance
- Receive end of day report
- Close work permit

MSMSUP106 - Work in a team

This unit This unit of competency covers the skills and knowledge required to organise own activities within a team to fit with work schedules and to meet operational guidelines.

Status: Elective "B2"
Prerequisites: Nil
Elements
- Identify work activities
- Organise daily work plan
- Participate in a team
MSMSUP210 - Process and record information

This unit This unit of competency covers the skills and knowledge required to process information and respond to the information requirements of own job, including the completion of workplace documents, and clearly and concisely providing relevant information to others.

Status: Elective "B2"

Prerequisites: Nil

Elements
- Access information
- Provide appropriate information
- Give and follow routine instructions
- Provide reports

MSMSUP230 - Monitor process operations

This unit This unit of competency covers the skills and knowledge required to monitor production processing equipment and take appropriate action.

Status: Elective "B2"

Prerequisites: Nil

Elements
- Identify scope of work in accordance with procedures
- Get ready for work/job
- Maintain operations in accordance with procedures
- Identify product quality requirements

MSMSUP240 - Undertake minor maintenance

This unit This unit of competency covers the skills and knowledge required to undertake minor maintenance and solve routine problems to procedures. It does not cover activities normally requiring traditional trade training.

This unit of competency covers minor maintenance, such as: operational maintenance (e.g. connection-disconnection of hoses, greasing, lubrication and lubricant systems, adjusting sealing glands, cleaning and changing filters and 'nipping up' flanges); general cleaning; removal and replacement (e.g. gland packing, changing blades or cutters, replacing gaskets, replacing/maintaining seals, changing filter elements and servicing strainers).

In a typical scenario a plant operator does minor maintenance activities on the plant and equipment being operated. For instance, the pressure drop across a filter unit may be high, indicating the filter cartridge needs changing. The operator takes the filter unit out of operation, cleans the unit, uses the correct spanner to open the lid, installs a fresh cartridge, closes the unit using the spanner again, then cleans up the area and disposes of the spent cartridge. Typically this sort of maintenance will be done on the plant and will not require workshop type facilities.

Status: Elective "B2"

Prerequisites: Nil

Elements
- Identify maintenance requirements
- Prepare for maintenance activity
- Perform maintenance activity
- Test equipment
- Record maintenance activity
MSMSUP280 - Manage conflict at work
This unit This unit of competency covers the skills and knowledge required to manage conflict in a range of personal conflict situations.

Status: Elective "B2"
Prerequisites: Nil
Elements
- Identify potential sources of conflict
- Identify range of alternative approaches
- Resolve conflicts
- Respond to problems

MSMSUP292 - Sample and test materials and product
This unit This unit of competency covers the skills and knowledge required to take routine samples and conduct simple tests.

Status: Elective "B2"
Prerequisites: Nil
Elements
- Take sample
- Complete test
- Interpret results and take action
- Complete sample and test cycle

MSMSUP300 - Identify and apply process improvements
This unit This unit of competency covers the skills and knowledge required to identify, monitor and participate in strategies to improve production efficiencies.

Status: Elective "B2"
Prerequisites: Nil
Elements
- Determine issues that affect process efficiency
- Monitor and measure process efficiency
- Participate in developing methods for improving process efficiencies
- Participate in implementing process improvement strategies

MSMSUP303 - Identify equipment faults
This unit This unit of competency covers the skills and knowledge required to plan and carry out checks to identify and deal with equipment faults and to determine solutions.

Status: Elective "B2"
Prerequisites: Nil
Elements
- Identify scope of operational check
- Plan operational checks
- Check unit through full operational range
- Identify faults and formulate recommendations
MSMSUP310 - Contribute to the development of workplace documentation
This unit This unit of competency covers the skills and knowledge required to develop workplace documentation in response to identified information requirements. Develop covers 'develop from scratch' or 'take existing and improve'.

Status: Elective "B2"
Prerequisites: Nil

Elements
- Identify information need/ deficiency
- Develop workplace documentation
- Communicate changes to workplace documentation

MSMSUP330 - Develop and adjust a production schedule
This unit This unit of competency covers the skills and knowledge required to plan, schedule and prioritise production to meet operational requirements.

Status: Elective "B2"
Prerequisites: Nil

Elements
- Identify resources to meet production requirements
- Develop schedules
- Monitor production schedules
- Adjust schedules

MSMSUP382 - Provide coaching/mentoring in the workplace
This unit This unit of competency covers the skills and knowledge required to establish and provide one-to-one coaching/mentoring in the workplace and evaluate its effectiveness.

Status: Elective "B2"
Prerequisites: Nil

Elements
- Establish coaching/ mentoring relationship
- Provide coaching/ mentoring support
- Evaluate effectiveness of coaching/ mentoring

MSMSUP390 - Use structured problem solving tools
This unit This unit of competency covers the skills and knowledge required to use structured process improvement tools to solve process and other problems.

Status: Elective "B2"
Prerequisites: Nil

Elements
- Identify the problem
- Determine fundamental cause of problem
- Determine corrective action
- Communicate recommendations
MSMWHS300 - Facilitate the implementation of OHS for a work group

This unit This unit of competency covers the skills and knowledge required to implement and monitor defined work health and safety (WHS) policies and procedures for a work group or area.

Status: Elective "B2"
Prerequisites: MSMWH200
Elements
- Communicate WHS information for co-workers in team
- Coach co-workers in team
- Facilitate the consultative process
- Implement and monitor organisation procedures for identifying hazards, and assessing and controlling risk
- Maintain and use WHS records

MSS402030 - Apply cost factors to work practices

This unit This unit of competency covers the skills and knowledge required by an individual to identify cost components in their work and to be able to determine, in general terms, the cost impacts of alternative actions.

Status: Elective "B2"
Prerequisites: Nil
Elements
- Identify the major cost components of product or process in own work area
- Identify constraints to cost-efficiency
- Apply cost-efficient work practices

MSS402031 - Interpret product costs in terms of customer requirements

This unit This unit of competency covers the skills and knowledge required by an individual to be able to identify the major cost components of either products or processes, the basic relationship of these to customer benefit, and use this to help minimise waste (defined as anything not delivering value as defined by the customer). It has a different focus to MSS402030 Apply cost factors to work practices, which focuses on costs in isolation, whereas this unit regards all costs not directly leading to customer benefit as waste.

Status: Elective "B2"
Prerequisites: Nil
Elements
- Identify cost components deriving from customer benefit and other costs
- Compare required performance of product or process steps with actual performance
- Minimise waste
MSS402040 - Apply 5S procedures
This unit This unit of competency covers the skills and knowledge required by an individual to apply 5S procedures to their own job and work area. The unit assumes the individual has a particular job and an allocated work area and that processes in the work area are known by the individual.
Status: Elective "B2"
Prerequisites: Nil
Elements
- Sort needed items from unneeded
- Set the workplace in order
- Shine the work area
- Standardise activities
- Sustain the 5S system

MSS402050 - Monitor process capability
This unit This unit of competency covers the skills and knowledge required for gathering of data and the interpretation of simple information to determine the compliance of the process and the taking of action as defined by the procedures where the information reveals the process is out of control parameters.
Status: Elective "B2"
Prerequisites: Nil
Elements
- Collect and process data
- Identify variations that are not random and take action
- Assist in process improvement

MSS402051 - Apply quality standards
This unit This unit of competency covers the skills and knowledge required to apply quality standards to work operations in an organisation. The unit is designed to complement competitive systems and practices units.
Status: Elective "B2"
Prerequisites: Nil
Elements
- Assess own work
- Assess quality of received components, parts or materials
- Investigate causes of quality deviations

MSS402060 - Use planning software systems in operations
This unit This unit of competency covers the skills and knowledge required to access planning software (often known as Enterprise Resource Planning (ERP), Materials Resource Planning (MRP and MRPII), and often by a proprietary name, to make routine business decisions required of the person as a regular part of their job.
Status: Elective "B2"
Prerequisites: Nil
Elements
- Use interface
- Access information
- Take action in accordance with procedures
MSS402080 - Undertake root cause analysis

This unit This unit of competency covers the skills and knowledge required to undertake root cause analysis (RCA). This unit also covers the competencies needed by operators to contribute to an advanced maintenance strategy using RCA coupled with diagrams and charts.

Status: Elective "B2"

Prerequisites: Nil

Elements
- Recognise problems
- Implement quick fix
- Determine root cause
- Develop permanent solution

MSS402081 - Contribute to the application of a proactive maintenance strategy

This unit This unit of competency covers the skills and knowledge required by an individual to make a positive contribution to proactive maintenance strategies, including actions that contribute to equipment uptime and overall equipment effectiveness (OEE). This unit applies in an organisation which is following a predictive, preventative or reliability-centred maintenance strategy and which requires commitment from all employees. The employee should 'own' their equipment/plant and take an active part in the implementation of the strategy within the scope of their authority.

Status: Elective "B2"

Prerequisites: Nil

Elements
- Maintain equipment/plant
- Monitor operation of equipment/plant
- Identify deviations and patterns
- Take action appropriate to competency and authority on deviation

PMAOPS105 - Select and prepare materials

This unit This unit of competency covers the skills and knowledge required to select and prepare materials for use in production processes.

Status: Elective "B2"

Prerequisites: Nil

Elements
- Identify and locate materials
- Contribute to controlling hazards
- Measure quantity of materials
- Prepare materials as required
- Store assembled materials
- Dispose of waste materials

***************
PMAOPS216 - Operate local control system

This unit This unit of competency covers the skills and knowledge required to operate a local control panel. These controllers use simple control algorithms and only a limited number of control loops. Typically it will be located on the plant, but may be located off-plant. This unit of competency also applies to simple panels in a control room which are not part of the main control panel.

Status: Elective "B2"
Prerequisites: Nil
Elements
- Prepare for work
- Interface with the control panel
- Control the process using the local control system
- Facilitate planned and unplanned process start-ups and shutdowns

PMAOPS305 - Operate process control systems

This unit This unit of competency covers the skills and knowledge required to operate and monitor the plant using a centralised control panel, such as distributed control system (DCS) type controls. The panel controls multiple vessels/plant items and or products. It will typically be located on-site but off plant in a control room, but may also be off-site.

Status: Elective "B2"
Prerequisites: Nil
Elements
- Prepare for work
- Use operator interface
- Access control information
- Control process variations and monitor operations
- Facilitate planned and unplanned process start-ups and shutdowns
- Respond to alarms or out of specification conditions

PMBHAN103 - Shift materials safely by hand

This unit This unit of competency covers the skills and knowledge required to safely shift materials by hand. It applies to manually shifting raw materials, components, products or similar items with or without the use of manual handling aids, such as handcarts and block and tackle.

Status: Elective "B2"
Prerequisites: Nil
Elements
- Plan operations
- Manually transfer products or materials
- Store, stack and/or relocate products or material
- Respond to routine problems to procedures
**PMC552002 - Operate equipment to blend/mix materials**

*This unit* This unit of competency covers the skills and knowledge required to select and blend/mix materials using blending/mixing and ancillary equipment.

**Status:** Elective "B2"

**Prerequisites:** Nil

**Elements**
- Determine blend/mix requirements
- Control hazards
- Blend/mix materials
- Monitor and record operation
- Rectify routine problems
- Maintain blending/mixing plant and area

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**PMC552003 - Operate grinding equipment**

*This unit* This unit of competency covers the skills and knowledge required to operate grinding and ancillary equipment. Grinding is typically used to reduce the size of raw materials, materials in process, product and scrap/recycled material. Examples include: quarried materials; cement clinker; lime; ceramics and clay; ground minerals; glass; concrete waste; fibre cement.

**Status:** Elective "B2"

**Prerequisites:** Nil

**Elements**
- Prepare to grind materials
- Grind materials
- Rectify routine problems
- Distribute ground product
- Control hazards

***************

**PMC552004 - Prepare for production**

*This unit* This unit of competency covers the skills and knowledge required to prepare for production within the manufactured mineral products industry.

**Status:** Elective "B2"

**Prerequisites:** Nil

**Elements**
- Check production plan
- Identify hazards
- Assemble raw materials
- Check machinery and equipment
- Rectify routine problems

***************
PMC552008 - Operate crushing equipment
This unit This unit of competency covers the skills and knowledge required to operate crushing equipment and ancillary equipment that is integral to the process. Crushing is typically applied in the manufacture minerals products industry to raw materials, materials in process, product and scrap/recycled material.
Status: Elective "B2"
Prerequisites: Nil
Elements
- Prepare to crush materials
- Crush materials
- Rectify routine problems
- Control hazards

PMC552010 - Operate a calcining kiln
This unit This unit of competency covers the skills and knowledge required to operate a calcining kiln and ancillary equipment that is integral to the process. It applies to a large production context where calcining operations are used to make cement, lime, plaster or similar products.
Status: Elective "B2"
Prerequisites: Nil
Elements
- Prepare the equipment for production
- Operate equipment and check on support equipment
- Monitor and record operation
- Rectify routine problems
- Shut down equipment
- Prepare equipment for maintenance
- Control hazards

PMC552031 - Operate extrusion equipment
This unit This unit of competency covers the skills and knowledge required to operate extrusion equipment and ancillary equipment that is integral to the process. It applies to a large production context where the extrusion is used to form clay, ceramic or concrete products.
Status: Elective "B2"
Prerequisites: Nil
Elements
- Prepare the extrusion equipment
- Operate forming equipment
- Operate surface finishing equipment
- Unload and shut down extrusion equipment
- Rectify routine problems
- Control hazards
PMC552032 - Operate pressing equipment
This unit This unit of competency covers the skills and knowledge required to operate pressing equipment and ancillary equipment that is integral to the process. It applies to a large production context where mechanical press forming is used to form clay, ceramic or concrete products.

**Status:** Elective "B2"

**Prerequisites:** Nil

**Elements**
- Prepare the pressing equipment
- Operate pressing equipment
- Unload and shut down pressing equipment
- Rectify routine problems
- Control hazards

***************

PMC552050 - Schedule, cut and bend reinforcement
This unit This unit of competency covers the skills and knowledge required to schedule, cut and bend reinforcement.

**Status:** Elective "B2"

**Prerequisites:** Nil

**Elements**
- Interpret plan/steel drawing/specifications
- Prepare materials and equipment
- Organise quality testing of reinforcement
- Rectify routine problems
- Control hazards

***************

PMC552052 - Cast moulded concrete products
This unit This unit of competency covers the skills and knowledge required to cast moulded concrete products. It applies to timber, glass fibre, metal casing, latex rubber, plaster and other moulds.

**Status:** Elective "B2"

**Prerequisites:** Nil

**Elements**
- Set up mould and accessories
- Prepare equipment for the mix
- Cast concrete into moulds
- Rectify routine problems
- Control hazards

***************
PMC552053 - Finish cured concrete products

This unit This unit of competency covers the skills and knowledge required to finish cured concrete products. It applies to all finishes applied to concrete before curing (e.g. exposed aggregate) but after manufacturing operations up to final vibration and/or screeding the top surface flat.

Status: Elective "B2"
Prerequisites: Nil

Elements

- Check product prior to finishing
- Undertake initial finishing as required
- Finish surface as required
- Clean and seal coat as required
- Rectify routine problems
- Control hazards

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PMC552055 - Conduct benching operations

This unit This unit of competency covers the skills and knowledge required to conduct benching operations as typically used to produce special-purpose concrete, clay or refractory components.

Status: Elective "B2"
Prerequisites: Nil

Elements

- Determine the shape of the work piece
- Assemble and prepare the work piece
- Rough cast the work piece
- Finish the work piece
- Rectify routine problems
- Inspect and store products
- Control hazards

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PMC552056 - Assemble, fabricate and place reinforcement

This unit This unit of competency covers the skills and knowledge required to assemble, fabricate and place reinforcement.

Status: Elective "B2"
Prerequisites: Nil

Elements

- Prepare for fabrication
- Assemble/fabricate reinforcement
- Rectify routine problems
- Control hazards

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PMCS52057 - Finish casting operation
This unit This unit of competency covers the skills and knowledge required to finish casting operations by fitting reinforcement and accessories to products before curing.

Status: Elective "B2"
Prerequisites: Nil

Elements
- Adjust and level mould and accessories
- Position and fit reinforcement and accessories
- Top up mould and finish
- Rectify routine problems
- Control hazards

PMCS52060 - Batch mix concrete
This unit This unit of competency covers the skills and knowledge required to batch mix concrete. It applies to concrete batching plants in the pre-mixed and manufactured concrete products sectors. It applies to wet and dry batching.

Status: Elective "B2"
Prerequisites: Nil

Elements
- Determine mix requirements
- Batch mix raw materials
- Monitor batch mixing process
- Maintain batch mixing plant and area
- Rectify routine problems
- Control hazards

PMCS52061 - Deliver concrete to site
This unit This unit of competency covers the skills and knowledge required to deliver concrete to site using an agitator or similar.

Status: Elective "B2"
Prerequisites: Nil

Elements
- Load agitator
- Deliver concrete
- Conform to site protocols
- Rectify routine problems
- Control hazards
 PMC552065 - Prepare asphalt  
This unit This unit of competency covers the skills and knowledge required to prepare batches of asphalt. It applies batching plants as typically used in the asphalt industry, such as batch, continuous, fixed and mobile plants. It applies to natural bitumen obtained from oil refineries and synthetic bitumen as used for coloured asphalt.

Status: Elective "B2"
Prerequisites: Nil

Elements
- Determine mix requirements
- Mix asphalt
- Monitor asphalt process
- Maintain batching plant and area
- Rectify routine problems
- Control hazards

PMC552070 - Operate forming equipment  
This unit This unit of competency covers the skills and knowledge required to operate forming equipment, and ancillary equipment that is integral to the process, as typically used to produce plasterboard, cornice and fibre cement sheet.

Status: Elective "B2"
Prerequisites: Nil

Elements
- Prepare forming equipment for production
- Operate forming equipment
- Rectify routine problems
- Shut down equipment
- Prepare equipment for cleaning and maintenance
- Control hazards

PMC552090 - Use and maintain tools and equipment for refractory operations  
This unit This unit of competency covers the skills and knowledge required to use and maintain tools and equipment for refractory operations. It applies to tools and equipment used in the manufacture and/or installation of refractory materials.

Status: Elective "B2"
Prerequisites: Nil

Elements
- Select and set up tools and equipment
- Use tools and equipment
- Contribute to the provision of a safe work environment
- Control hazards
- Respond to problems
PMC40116 - Certificate IV in Manufactured Mineral Products
Summary of Competency Units

PMC552091 - Prepare for, install and repair refractory brickwork/blockwork
This unit This unit of competency covers the skills and knowledge required to prepare for, install and/or repair refractory brickwork and/or blockwork. It applies to installation/repairs with brickwork/blockwork alone and with brickwork/blockwork that needs to join to moulded or cast refractory.

Status: Elective "B2"
Prerequisites: Nil

Elements
- Establish the suitability of resources
- Prepare, repair and install refractory brickwork/blockwork
- Contribute to controlling hazards in work area
- Respond to problems

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PMC552094 - Prepare for and apply shotcrete for installation
This unit This unit of competency covers the skills and knowledge required to prepare for and apply shotcrete refractory installation. Shotcrete is the generic term used to describe the placement of cementitious products, such as concrete or refractory monolithics, by high volume and high velocity air. It is also known as guniting.

Status: Elective "B2"
Prerequisites: Nil

Elements
- Establish the suitability of resources
- Apply shotcrete to prepared surface
- Contribute to controlling hazards in work area
- Respond to problems

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PMC553000 - Set up and tune a process
This unit This unit of competency covers the skills and knowledge required to set up and tune a process as typically required for start-up, job change and equipment changes in preparation for production.

Status: Elective "B2"
Prerequisites: Nil

Elements
- Prepare for equipment/change parts installation
- Prepare the process for production
- Set up process
- Tune the process
- Respond to problems
- Control hazards

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PMC553010 - Process raw meal into product
This unit This unit of competency covers the skills and knowledge required to process raw meal through a kiln to produce cement and/or lime product.

Status: Elective "B2"
Prerequisites: PMC552010
Elements
- Prepare for processing
- Process raw meal
- Distribute product to storage
- Respond to problems
- Shut down equipment
- Prepare equipment for maintenance
- Control hazards

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PMC553080 - Set up and optimise finishing process
This unit This unit of competency covers the skills and knowledge required to set up and optimise the finishing process for a flat sheet manufacturing process, such as fibre board or plasterboard.

Status: Elective "B2"
Prerequisites: Nil
Elements
- Prepare the process for production
- Set up finishing process
- Monitor, interpret data and adjust operation
- Sample, test and record product data
- Rectify equipment and quality problems
- Shut down equipment
- Control hazards

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PMC561072 - Store materials for production
This unit This unit of competency covers the skills and knowledge required to store and maintain quantities of production materials.

Status: Elective "B2"
Prerequisites: Nil
Elements
- Store materials
- Monitor material in storage
- Check stored materials
- Rectify routine problems

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PMC561080 - Organise self

This unit This unit of competency covers the skills and knowledge required to set individual work priorities.

Status: Elective "B2"
Prerequisites: Nil

Elements
- Identify work activities
- Organise daily work activities
- Follow work plan

PMC562070 - Move materials

This unit This unit of competency applies to operators who are required to plan the moving of materials; ensure safety requirements are in place; perform pre-start checks and operate the equipment; secure, shift and stack materials; and identify and take action on problems.

Status: Elective "B2"
Prerequisites: Nil

Elements
- Perform pre-start checks
- Plan work load
- Shift loads
- Close down plant/ equipment
- Rectify routine problems

PMC562071 - Operate bulk materials handling equipment

This unit This unit of competency covers the skills and knowledge required to operate equipment used to store and convey bulk, particulate materials. It applies to particulates, such as: cement; sand; aggregate; frit; cullet; asphalt (not strictly a particulate solid but included in this unit); other similar materials.

Status: Elective "B2"
Prerequisites: Nil

Elements
- Operate conveyors
- Manage bulk material storages
- Rectify problems
- Carry out maintenance procedures
- Control hazards

PMC562081 - Deliver customer service

This unit This unit of competency covers the skills and knowledge required to deliver customer service in the workplace. It applies to customers within the organisation and external customers, for example, where the operator takes orders or delivers product.

Status: Elective "B2"
Prerequisites: Nil

Elements
- Identify customer requirements
- Respond to customer requirements
- Improve customer service
PMC562083 - Allocate and complete team tasks
This unit This unit of competency covers the skills and knowledge required to allocate and complete team tasks.
Status: Elective "B2"
Prerequisites: Nil
Elements
- Identify tasks for team
- Organise individual daily work plan
- Participate in team

PMC563081 - Carry out stock control
This unit This unit of competency covers the skills and knowledge required to carry out stock control. It applies to stock held in a store, warehouse or locally in the plant.
Status: Elective "B2"
Prerequisites: Nil
Elements
- Monitor stock reordering
- Maintain inventory records systems
- Undertake stocktaking and cyclical counts
- Control hazards
- Respond to problems

RIIRS201D - Conduct local risk control
This unit This unit describes a participant’s skills and knowledge required to conduct local risk control in the Resources and Infrastructure Industries.
Status: Elective "B2"
Prerequisites: Nil
Elements
- Plan and prepare for risk control
- Assess and identify unacceptable risk
- Identify, assess and implement risk treatments
- Complete records and reports

TAEASS301 - Contribute to assessment
This unit This unit describes the skills and knowledge required to contribute to the assessment process.
Status: Elective "B2"
Prerequisites: Nil
Elements
- Clarify role and responsibilities in the assessment process
- Confirm organisational arrangements for evidence gathering
- Collect evidence in accordance with the assessment plan
- Record and report findings
TAEDEL301 - Provide work skill instruction

This unit describes the skills and knowledge required to conduct individual and group instruction, demonstrate work skills and assess the success of training and one’s own training performance, using existing learning resources in a safe and comfortable learning environment.

Status: Elective "B2"

Prerequisites: Nil

Elements

- Organise instruction and demonstration
- Conduct instruction and demonstration
- Check training performance
- Review personal training performance

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TUD2010 - Operate a forklift

This unit involves the skills and knowledge required to operate a forklift in compliance with the relevant state/territory authority licence requirements and regulations, in a variety of operational contexts. It includes checking forklift condition, driving forklift to fulfil operational requirements, and monitoring and maintaining forklift performance and site conditions.

Status: Elective "B2"

Prerequisites: Nil

Elements

- Check forklift condition
- Drive forklift
- Operate forklift to handle loads
- Monitor site conditions
- Monitor and maintain forklift performance

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