

## National Higher Qualifications

For

Chemical, Hydrocarbons and Refining Package



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## **SECTION 1 – PACKAGE BACKGROUND**

### **Background to the Operations Training Package**

The process manufacturing industries include the major industry sectors of:

- chemical, hydrocarbons, and minerals processing and oil refining (ANZSIC classification 12 and 251 to 254 ) represented by PMA08 Training Package
- iron and steel (ANZSIC classification 271) - currently no Training Package
- manufactured mineral products (statistically the non-metallic minerals sector ANZSIC classification 26) represented by PMC04 Training Package
- plastics, rubber and cabling (ANZSIC classifications 255 and 2852) represented by PMB07 Training Package.

#### **The chemical, hydrocarbons and refining industry**

This industry sector is downstream to the minerals and hydrocarbons exploration and drilling and mineral mining sectors and commences once a production well/mine is established. Its products are distributed to the downstream processing plants as well as the utilities industry, other manufacturing and food and beverage sectors. Other sectors will start with raw materials such as common salt, sulphur or starch to produce their products. Most products from this industry are not used directly by the consumer but rather are transformed by downstream industries such as plastics, food and clothing into consumer products. The major exceptions to this rule would be oil refinery products (petrol and lube oil) and paint.

## Section 2 - PMA20108 Certificate II in Process Plant Operations

The Certificate II in Process Plant Operations has been developed as a technical qualification for use in the Chemical, Hydrocarbons and Refining Training Package

The Certificate II in Process Plant Operations is intended for competent operators who operate production equipment or undertake similar roles directly producing products. The operator would apply a breadth and depth of knowledge to a defined range of situations and would be expected to apply this knowledge to solve a defined range of problems by applying known solutions to a limited range of predictable problems.

Other non-technical Certificates II are available for production support employees at this level, such as MSA20107 Certificate II in Process Manufacturing. This certificate should be used where the job requirements do not allow for the development of competency in sufficient technical units of competency. The Certificate II in Competitive Manufacturing MCM20205 is also available for employees at this level where the job requires sophisticated manufacturing practice skills rather than technical skills.

This qualification is typically used to prepare new employees or develop existing workers performing an operational role in the chemical, hydrocarbons or refining sectors.

Operators may specialise in one of the following sectors:

- fine chemicals, heavy chemicals
- petrochemicals, polymer manufacture
- hydrocarbon extraction, hydrocarbon transmission
- hydrocarbon processing/refining
- minerals processing/refining
- metals smelting/processing
- other related areas.

### Packaging Rules

To be awarded the Certificate II in Process Plant Operations competency must be achieved in

**sixteen (16)** units of competency:

- **five (5)** core units of competency
- **eleven (11)** elective units of competency chosen as specified below.

Code	Title
MSAENV272B	Participate in environmentally sustainable work practices
MSAPMOHS110A	Follow emergency response procedures
MSAPMOHS200A	Work safely
MSAPMSUP100A	Apply workplace procedures
MSAPMSUP102A	Communicate in the workplace

Elective units of competency

Select **eleven (11)** units as specified below:

- A minimum of **four (4)** from Group A
- The remainder may be chosen from Groups A, B and C (with a maximum of **five (5)** from Group C) to bring the total number of electives to **eleven (11)**.

Group A - Specialist electives

FDFPHGMP2B	Implement Good Manufacturing Practice procedures
MSAPMOPS200A	Operate equipment
MSAPMOPS212A	Use enterprise computers or data systems
PMAOPS201B	Operate fluid flow equipment
PMAOPS202B	Operate fluid mixing equipment
PMAOPS203B	Handle goods
PMAOPS204B	Use utilities and services
PMAOPS205B	Operate heat exchangers
PMAOPS206B	Operate separation equipment
PMAOPS207B	Operate powered separation equipment
PMAOPS208B	Operate chemical separation equipment
PMAOPS210B	Operate particulates handling equipment
PMAOPS211B	Operate manufacturing extruders
PMAOPS213B	Package product/material
PMAOPS216B	Operate local control system
PMAOPS217B	Operate wet milling equipment
PMAOPS220B	Monitor chemical reactions in the process
PMAOPS221B	Operate and monitor prime movers
PMAOPS222B	Operate and monitor pumping systems and equipment
PMAOPS223B	Operate and monitor valve systems
PMAOPS224B	Provide fluids for utilities and support
PMAOPS230B	Monitor, operate and maintain pipeline stations and equipment
PMAOPS231B	Control gas odourisation

## Chem Operations

## Independent Inspections, FWR , Wright Training

PMAOPS232B	Produce product by filtration
PMAOPS233A	Monitor wells and gathering systems
PMAOPS234A	Monitor and operate low pressure compressors
PMAOPS240B	Store liquids in bulk
PMAOPS241A	Operate Joule-Thomson effect device
PMAOPS280B	Interpret process plant schematics
PMAOPS290B	Operate a biotreater
PMASMELT260B	Form carbon anodes
PMASMELT261B	Bake carbon anodes
PMASMELT262B	Clean and strip anode rods
PMASMELT263B	Spray carbon anodes
PMASMELT264B	Start up reduction cells
PMASMELT265B	Operate reduction cells
PMASMELT266B	Deliver molten metal
PMASMELT267B	Cast aluminium ingots
PMASMELT268B	Vertical direct casting
PMASMELT269A	Operate cell tending equipment
PMASMELT270A	Supply product from reduction cells
UEPOPS319A	Operate and Monitor Gas Production Plant

**Group B**

MEM05012C	Perform routine manual metal arc welding
MEM09002B	Interpret technical drawing
MEM16005A	Operate as a team member to conduct manufacturing, engineering or related activities
MSACMS201A	Sustain process improvements
MSACMT230A	Apply cost factors to work practices
MSACMT231A	Interpret product costs in terms of customer requirements
MSACMT240A	Apply 5S procedures in a manufacturing environment

MSACMT250A	Monitor process capability
MSACMT251A	Apply quality standards
MSACMT260A	Use planning software systems in manufacturing
MSACMT270A	Use sustainable energy practices
MSACMT271A	Use sustainable environmental practices
MSACMT280A	Undertake root cause analysis
MSACMT281A	Contribute to the application of a proactive maintenance strategy
MSAPMOHS205A	Control minor incidents
MSAPMOHS210B	Undertake first response to non-fire incidents
MSAPMOHS212A	Undertake first response to fire incidents
MSAPMOHS216A	Operate breathing apparatus
MSAPMOHS217A	Gas test atmospheres
MSAPMOHS220A	Provide initial first aid response
MSAPMPER200C	Work in accordance with an issued permit
MSAPMPER201A	Monitor and control work permits
MSAPMPER202A	Observe permit work
MSAPMPER205C	Enter confined space
MSAPMSUP200A	Achieve work outcomes
MSAPMSUP201A	Receive or despatch goods
MSAPMSUP204A	Pack products or materials
MSAPMSUP205A	Transfer loads
MSAPMSUP210A	Process and record information
MSAPMSUP240A	Undertake minor maintenance
MSAPMSUP280A	Manage conflict at work
MSAPMSUP291A	Participate in continuous improvement
MSAPMSUP292A	Sample and test materials and product
MSL952001A	Collect routine site samples
PMAOHS211B	Prepare equipment for emergency response

PMAOHS213B	Undertake fire control and emergency rescue
PMAOHS214B	Undertake helicopter safety and escape
PMAOHS215B	Apply offshore facility abandonment and sea survival procedures
PMAOHS221B	Maintain first aid supplies and records
PMAOMIR210B	Control evacuation to muster point
PMASUP236B	Operate vehicles in the field
PMASUP237B	Undertake crane, dogging and load transfer operations
PMASUP241B	Maintain pipeline easements
PMASUP242B	Monitor pipeline civil works
PMASUP243B	Monitor and maintain pipeline coatings
RIIOHS204A	Work safely at heights
RIIRIS201A	Conduct local risk control
TLID1007C	Operate a forklift

## Group C

FDFPHGMP1A	Follow work procedures to maintain Good Manufacturing Practice
MEM11001C	Undertake manual handling
MSAPMOHS100A	Follow OHS procedures
MSAPMOPS100A	Use equipment
MSAPMOPS102A	Perform tasks to support production
MSAPMSUP101A	Clean workplace or equipment
MSAPMSUP106A	Work in a team
MSAPMSUP172A	Identify and minimise environmental hazards
PMAOPS101C	Read dials and indicators
PMAOPS105C	Select and prepare materials

### Section 3 - PMA30108 Certificate III in Process Plant Operations

The Certificate III in Process Plant Operations has been developed as a technical qualification for use in the Chemical, Hydrocarbons and Refining Training Package (PMA08).

#### Job roles/employment outcomes

The Certificate III in Process Plant Operation is intended for advanced operators and operations technicians who use production equipment to directly produce products. At this level, operators/technicians would undertake more advanced operations, typically of integrated plant units in accordance with the operating procedures, and would apply their knowledge to anticipate problems. They would be expected to solve a range of foreseen and unforeseen problems, using product and process knowledge to develop solutions to problems which do not have a known solution, or a solution recorded in the procedures.

The Certificate III in Process Manufacturing MSA30107 is available for production support employees at this level and should be used where the job requirements do not allow for the development of competency in sufficient technical units of competency. The Certificate III in Competitive Manufacturing MCM30104 is available for employees at this level where the job requires sophisticated manufacturing practice skills rather than technical skills.

#### Application

This qualification is typically used to develop employees performing an advanced operational role that includes an ability to work independently and conduct technical problem solving according to the needs of the work in the chemical, hydrocarbons or refining sectors.

Operators may specialise in one of the following areas:

- fine chemicals
- heavy chemicals
- petrochemicals
- polymer manufacture
- hydrocarbon extraction
- hydrocarbon transmission
- hydrocarbon processing/refining

#### Packaging Rules

To be awarded the Certificate II in Process Plant Operations competency must be achieved in

**sixteen (16)** units of competency:

- **five (5)** core units of competency
- **eleven (11)** elective units of competency chosen as specified below.

## Chem Operations

## Independent Inspections, FWR , Wright Training

MSAENV272B	Participate in environmentally sustainable work practices
MSAPMOHS110A	Follow emergency response procedures
MSAPMOHS200A	Work safely
MSAPMSUP100A	Apply workplace procedures
MSAPMSUP102A	Communicate in the workplace

## Elective units of competency

Select **eleven (11)** units as specified below:

- A minimum of **four (4)** from Group A
- The remainder may be chosen from Groups A, B and C (maximum of **five (5)** from Group C) to bring the total number of electives to **eleven (11)**.

FDFPHGMP2B	Implement Good Manufacturing Practice procedures
MSAPMOPS200A	Operate equipment
MSAPMOPS212A	Use enterprise computers or data systems
PMAOPS201B	Operate fluid flow equipment
PMAOPS202B	Operate fluid mixing equipment
PMAOPS203B	Handle goods
PMAOPS204B	Use utilities and services
PMAOPS205B	Operate heat exchangers
PMAOPS206B	Operate separation equipment
PMAOPS207B	Operate powered separation equipment
PMAOPS208B	Operate chemical separation equipment
PMAOPS210B	Operate particulates handling equipment
PMAOPS211B	Operate manufacturing extruders
PMAOPS213B	Package product/material
PMAOPS216B	Operate local control system
PMAOPS217B	Operate wet milling equipment
PMAOPS220B	Monitor chemical reactions in the process
PMAOPS221B	Operate and monitor prime movers
PMAOPS222B	Operate and monitor pumping systems and equipment

## Chem Operations

## Independent Inspections, FWR , Wright Training

PMAOPS223B	Operate and monitor valve systems
PMAOPS224B	Provide fluids for utilities and support
PMAOPS230B	Monitor, operate and maintain pipeline stations and equipment
PMAOPS231B	Control gas odourisation
PMAOPS232B	Produce product by filtration
PMAOPS233A	Monitor wells and gathering systems
PMAOPS234A	Monitor and operate low pressure compressors
PMAOPS240B	Store liquids in bulk
PMAOPS241A	Operate Joule-Thomson effect device
PMAOPS280B	Interpret process plant schematics
PMAOPS290B	Operate a biotreater
PMASMELT260B	Form carbon anodes
PMASMELT261B	Bake carbon anodes
PMASMELT262B	Clean and strip anode rods
PMASMELT263B	Spray carbon anodes
PMASMELT264B	Start up reduction cells
PMASMELT265B	Operate reduction cells
PMASMELT266B	Deliver molten metal
PMASMELT267B	Cast aluminium ingots
PMASMELT268B	Vertical direct casting
PMASMELT269A	Operate cell tending equipment
PMASMELT270A	Supply product from reduction cells
UEPOPS319A	Operate and Monitor Gas Production Plant

## Group B

MEM05012C	Perform routine manual metal arc welding
MEM09002B	Interpret technical drawing
MEM16005A	Operate as a team member to conduct manufacturing, engineering or related activities

## Chem Operations

## Independent Inspections, FWR , Wright Training

MSACMS201A	Sustain process improvements
MSACMT230A	Apply cost factors to work practices
MSACMT231A	Interpret product costs in terms of customer requirements
MSACMT240A	Apply 5S procedures in a manufacturing Environment
MSACMT250A	Monitor process capability
MSACMT251A	Apply quality standards
MSACMT260A	Use planning software systems in manufacturing
MSACMT270A	Use sustainable energy practices
MSACMT271A	Use sustainable environmental practices
MSACMT280A	Undertake root cause analysis
MSACMT281A	Contribute to the application of a proactive maintenance strategy
MSAPMOHS205A	Control minor incidents
MSAPMOHS210B	Undertake first response to non-fire incidents
MSAPMOHS212A	Undertake first response to fire incidents
MSAPMOHS216A	Operate breathing apparatus
MSAPMOHS217A	Gas test atmospheres
MSAPMOHS220A	Provide initial first aid response
MSAPMPER200C	Work in accordance with an issued permit
MSAPMPER201A	Monitor and control work permits
MSAPMPER202A	Observe permit work
MSAPMPER205C	Enter confined space
MSAPMSUP200A	Achieve work outcomes
MSAPMSUP201A	Receive or despatch goods
MSAPMSUP204A	Pack products or materials
MSAPMSUP205A	Transfer loads
MSAPMSUP210A	Process and record information
MSAPMSUP240A	Undertake minor maintenance
MSAPMSUP280A	Manage conflict at work

## Chem Operations

## Independent Inspections, FWR , Wright Training

MSAPMSUP291A	Participate in continuous improvement
MSAPMSUP292A	Sample and test materials and product
MSL952001A	Collect routine site samples
PMAOHS211B	Prepare equipment for emergency response
PMAOHS213B	Undertake fire control and emergency rescue
PMAOHS214B	Undertake helicopter safety and escape
PMAOHS215B	Apply offshore facility abandonment and sea survival procedures
PMAOHS221B	Maintain first aid supplies and records
PMAOMIR210B	Control evacuation to muster point
PMASUP236B	Operate vehicles in the field
PMASUP237B	Undertake crane, dogging and load transfer operations
PMASUP241B	Maintain pipeline easements
PMASUP242B	Monitor pipeline civil works
PMASUP243B	Monitor and maintain pipeline coatings
RIOHS204A	Work safely at heights
RIIRIS201A	Conduct local risk control
TLID1007C	Operate a forklift

## Group C

FDFPHGMP1A	Follow work procedures to maintain Good Manufacturing Practice
MEM11001C	Undertake manual handling
MSAPMOHS100A	Follow OHS procedures
MSAPMOPS100A	Use equipment
MSAPMOPS102A	Perform tasks to support production
MSAPMSUP101A	Clean workplace or equipment
MSAPMSUP106A	Work in a team
MSAPMSUP172A	Identify and minimise environmental hazards
PMAOPS101C	Read dials and indicators
PMAOPS105C	Select and prepare materials

## Section 4 - PMA40108 Certificate IV in Process Plant Technology

The Certificate IV in Process Plant Technology has been developed as a technical qualification for use in the Chemical, Hydrocarbons and Refining Training Package (PMA08).

The Certificate IV in Process Plant Technology is intended for plant technicians.

The technician will typically be involved in solving complex problems which require theoretical knowledge, combined with an understanding of the production process and equipment across the plant.

### Application

This qualification is typically used to develop employees performing a technical role that includes an ability to work independently and conduct technical problem solving according to the needs of the work in the manufactured mineral products industries.

Non-technical team leaders, coordinators and supervisors may be better served by a qualification in competitive manufacturing. The Certificate IV in Competitive Manufacturing MCM40104 is available for team leaders at this level where the job requires sophisticated manufacturing practice skills rather than technical skills.

People with this qualification may be expected to work in one of the following sectors:

- fine chemicals
- heavy chemicals
- petrochemicals
- polymer manufacture
- hydrocarbon extraction
- hydrocarbon transmission
- hydrocarbon processing/refining

### Packaging Rules

To be awarded the Certificate IV in Process Plant Technology competency must be achieved in **twenty six (26)** units of competency:

- **five (5)** core units of competency
- **twenty one (21)** elective units of competency hosen as specified below

Code	Title
MSAENV272B	Participate in environmentally sustainable work practices
MSAPMOHS110A	Follow emergency response procedures
MSAPMOHS200A	Work safely
MSAPMSUP100A	Apply workplace procedures
MSAPMSUP102A	Communicate in the workplace

Select **twenty one (21)** units as specified below:

- A minimum of **one (1)** from Group A
- The remainder may be chosen from Groups A, B and C (maximum of **eighteen (18)** from Group C) to bring the total number of electives to **twenty one (21)**.

MSAPMOPS400A	Optimise process/plant area
MSAPMOPS401A	Trial new process product
PMAOPS402A	Respond to abnormal process situations
PMAOPS405A	Operate complex control systems
PMAOPS410B	Monitor remote production facilities
PMAOPS411B	Manage plant shutdown and restart
PMAOPS433A	Manage wells and gathering systems
PMAOPS434A	Commission wells and gathering systems
PMAOPS450B	Solve colour problems

#### Group B

MSACMC411A	Lead a competitive manufacturing team
MSACMC413A	Lead team culture improvement
MSACMS401A	Ensure process improvements are sustained
MSACMT430A	Improve cost factors in work practices
MSACMT440A	Lead 5S in a manufacturing environment
MSACMT441A	Facilitate continuous improvement in manufacturing
MSACMT450A	Undertake process capability improvements
MSACMT451A	Mistake proof a production process
MSACMT452A	Apply statistics to processes in manufacturing
MSACMT460A	Facilitate the use of planning software systems in manufacturing
MSACMT481A	Undertake proactive maintenance analyses
MSACMT482A	Assist in implementing a proactive maintenance strategy

## Chem Operations

## Independent Inspections, FWR , Wright Training

MSAENV472B	Implement and monitor environmentally sustainable work practices
MSAPMOHS400A	Contribute to workplace OHS management system
MSAPMOHS401A	Assess risk
MSAPMOPS404A	Co-ordinate maintenance
MSAPMOPS405A	Identify problems in fluid power system
MSAPMOPS406A	Identify problems in electronic control systems
MSAPMPER400A	Coordinate permit process
MSAPMSUP400A	Develop and monitor quality systems
MSL954001A	Obtain representative samples in accordance with a sampling plan
PMAOHS420B	Develop first aid procedures and manage resources
PMAOMIR407B	Audit incident preparedness and established response system
PMAOMIR418B	Coordinate incident response
PMAOMIR424B	Develop and maintain community relationships
PMAOMIR430B	Conduct and assess incident exercises
PMAOMIR444B	Develop incident containment tactics
PMAOMIR449B	Monitor legal compliance obligations during incidents
PMASUP410B	Develop plant documentation
PMASUP420B	Minimise environmental impact of process
PMASUP432B	Coordinate pipeline projects
PMASUP440B	Commission/recommission plant
PMASUP441C	Decommission plant
PMASUP445A	Participate in HAZOP studies
TAEASS401A	Plan assessment activities and processes
TAEASS402A	Assess competence
TAEASS403A	Participate in assessment validation

## Group C

FDFPHGMP1A	Follow work procedures to maintain Good Manufacturing Practice
FDFPHGMP2B	Implement Good Manufacturing Practice procedures

## Chem Operations

## Independent Inspections, FWR , Wright Training

FDFPHGMP3A	Monitor the implementation of Good Manufacturing Practice procedures
MEM05012C	Perform routine manual metal arc welding
MEM07033B	Operate and monitor basic boiler
MEM07034A	Operate and monitor intermediate class boiler
MEM09002B	Interpret technical drawing
MEM09003B	Prepare basic engineering drawing
MEM11001C	Undertake manual handling
MEM16005A	Operate as a team member to conduct manufacturing, engineering or related activities
MEM18011C	Shutdown and isolate machines/equipment
MSACMS201A	Sustain process improvements
MSACMT230A	Apply cost factors to work practices
MSACMT231A	Interpret product costs in terms of customer requirements
MSACMT240A	Apply 5S procedures in a manufacturing environment
MSACMT250A	Monitor process capability
MSACMT251A	Apply quality standards
MSACMT260A	Use planning software systems in manufacturing
MSACMT270A	Use sustainable energy practices
MSACMT271A	Use sustainable environmental practices
MSACMT280A	Undertake root cause analysis
MSACMT281A	Contribute to the application of a proactive maintenance strategy
MSAPMOHS100A	Follow OHS procedures
MSAPMOHS205A	Control minor incidents
MSAPMOHS210B	Undertake first response to non-fire incidents
MSAPMOHS212A	Undertake first response to fire incidents
MSAPMOHS216A	Operate breathing apparatus

## Chem Operations

## Independent Inspections, FWR , Wright Training

MSAPMOHS217A	Gas test atmospheres
MSAPMOHS220A	Provide initial first aid response
MSAPMOHS300A	Facilitate the implementation of OHS for a work group
MSAPMOPS100A	Use equipment
MSAPMOPS102A	Perform tasks to support production
MSAPMOPS200A	Operate equipment
MSAPMOPS212A	Use enterprise computers or data systems
MSAPMPER200C	Work in accordance with an issued permit
MSAPMPER201A	Monitor and control work permits
MSAPMPER202A	Observe permit work
MSAPMPER205C	Enter confined space
MSAPMPER300C	Issue work permits
MSAPMSUP101A	Clean workplace or equipment
MSAPMSUP106A	Work in a team
MSAPMSUP172A	Identify and minimise environmental hazards
MSAPMSUP200A	Achieve work outcomes
MSAPMSUP201A	Receive or despatch goods
MSAPMSUP204A	Pack products or materials
MSAPMSUP205A	Transfer loads
MSAPMSUP210A	Process and record information
MSAPMSUP240A	Undertake minor maintenance
MSAPMSUP280A	Manage conflict at work
MSAPMSUP291A	Participate in continuous improvement
MSAPMSUP292A	Sample and test materials and product
MSAPMSUP300A	Identify and implement opportunities to maximise production efficiencies
MSAPMSUP301A	Apply HACCP to the workplace
MSAPMSUP303A	Identify equipment faults
MSAPMSUP309A	Maintain and organise workplace records

## Chem Operations

## Independent Inspections, FWR , Wright Training

MSAPMSUP310A	Contribute to development of plant documentation
MSAPMSUP330A	Develop and adjust a production schedule
MSAPMSUP382A	Provide coaching/mentoring in the workplace
MSAPMSUP383A	Facilitate a team
MSAPMSUP390A	Use structured problem solving tools
MSL952001A	Collect routine site samples
MSL973001A	Perform basic tests
PMAOHS211B	Prepare equipment for emergency response
PMAOHS213B	Undertake fire control and emergency rescue
PMAOHS214B	Undertake helicopter safety and escape
PMAOHS215B	Apply offshore facility abandonment and sea survival procedures
PMAOHS221B	Maintain first aid supplies and records
PMAOHS310B	Investigate incidents
PMAOHS311B	Lead emergency teams
PMAOHS312B	Command the operation of survival craft
PMAOHS320C	Provide advanced first aid response
PMAOHS321B	Provide first aid response in remote and/or isolated area
PMAOMIR210B	Control evacuation to muster point
PMAOMIR301B	Undertake initial rescue
PMAOMIR302B	Respond to a helideck incident
PMAOMIR317B	Facilitate search and rescue operations
PMAOMIR320B	Manage incident response information
PMAOMIR321B	Manage communication systems during an incident
PMAOMIR346B	Assess and secure an incident site
PMAOPS101C	Read dials and indicators
PMAOPS105C	Select and prepare materials
PMAOPS201B	Operate fluid flow equipment
PMAOPS202B	Operate fluid mixing equipment

## Chem Operations

## Independent Inspections, FWR , Wright Training

PMAOPS203B	Handle goods
PMAOPS204B	Use utilities and services
PMAOPS205B	Operate heat exchangers
PMAOPS206B	Operate separation equipment
PMAOPS207B	Operate powered separation equipment
PMAOPS208B	Operate chemical separation equipment
PMAOPS210B	Operate particulates handling equipment
PMAOPS211B	Operate manufacturing extruders
PMAOPS213B	Package product/material
PMAOPS216B	Operate local control system
PMAOPS217B	Operate wet milling equipment
PMAOPS220B	Monitor chemical reactions in the process
PMAOPS221B	Operate and monitor prime movers
PMAOPS222B	Operate and monitor pumping systems and equipment
PMAOPS223B	Operate and monitor valve systems
PMAOPS224B	Provide fluids for utilities and support
PMAOPS230B	Monitor, operate and maintain pipeline stations and equipment
PMAOPS231B	Control gas odourisation
PMAOPS232B	Produce product by filtration
PMAOPS233A	Monitor wells and gathering systems
PMAOPS234A	Monitor and operate low pressure compressors
PMAOPS240B	Store liquids in bulk
PMAOPS241A	Operate Joule-Thomson effect device
PMAOPS280B	Interpret process plant schematics
PMAOPS290B	Operate a biotreater
PMAOPS300B	Operate a production unit
PMAOPS301B	Produce products by distillation
PMAOPS302B	Operate reactors and reaction equipment

## Chem Operations

## Independent Inspections, FWR , Wright Training

PMAOPS303B	Operate furnaces to induce reaction
PMAOPS304B	Operate and monitor compressor systems and equipment
PMAOPS305B	Operate process control systems
PMAOPS307B	Transfer bulk fluids into/out of storage facility
PMAOPS308B	Organise storage and logistics of general materials
PMAOPS309B	Operate particulates handling/ storage equipment
PMAOPS312B	Undertake ship loading/unloading operations
PMAOPS319A	Adjust batch
PMAOPS320B	Conduct artificial lift
PMAOPS321B	Undertake well management
PMAOPS323A	Operate and monitor heating furnace
PMAOPS324A	Operate a gas turbine
PMAOPS325B	Generate electrical power
PMAOPS326B	Produce product using gas absorption
PMAOPS327B	Produce product using fixed bed dehydration
PMAOPS329B	Produce product using liquid extraction
PMAOPS330B	Communicate pipeline control centre operations
PMAOPS333A	Operate wells and gathering systems
PMAOPS335A	Conduct pipeline pigging
PMAOPS340B	Operate cryogenic processes
PMAOPS350B	Match and adjust colour
PMAOPS390B	Operate a biochemical process
PMASMELT260B	Form carbon anodes
PMASMELT261B	Bake carbon anodes
PMASMELT262B	Clean and strip anode rods
PMASMELT263B	Spray carbon anodes
PMASMELT264B	Start up reduction cells
PMASMELT265B	Operate reduction cells

## Chem Operations

## Independent Inspections, FWR , Wright Training

PMASMELT266B	Deliver molten metal
PMASMELT267B	Cast aluminium ingots
PMASMELT268B	Vertical direct casting
PMASMELT269A	Operate cell tending equipment
PMASMELT270A	Supply product from reduction cells
PMASUP236B	Operate vehicles in the field
PMASUP237B	Undertake crane, dogging and load transfer operations
PMASUP241B	Maintain pipeline easements
PMASUP242B	Monitor pipeline civil works
PMASUP243B	Monitor and maintain pipeline coatings
PMASUP305A	Operate offshore cranes
PMASUP311A	Operate communications hub
PMASUP341B	Monitor and maintain instrument and control systems
PMASUP342B	Monitor and maintain electrical systems
PMASUP343B	Monitor and maintain cathodic protection systems
PMASUP344B	Monitor and control repairs and modifications on operational line
PMASUP345A	Monitor vibration
PMASUP346A	Control corrosion
PMASUP347A	Undertake corrosion inspection in a petrochemical environment
PSPGOV308B	Work effectively with diversity
RIIOHS204A	Work safely at heights
RIIRIS201A	Conduct local risk control
TAEASS301A	Contribute to assessment
TAEDEL301A	Provide work skill instruction
TLID1007C	Operate a forklift
UEPOPS319A	Operate and Monitor Gas Production Plant
UEPOPS340A	Operate and Monitor a Steam Turbine