



**Australian Government**

# **RII30411 Certificate III in Resource Processing**

**Release 3**

## **RII30411 Certificate III in Resource Processing**

### **Modification History**

Not applicable.

### **Description**

This qualification reflects the role of employees such as production operators in a metalliferous processing facility or a coal preparation and treatment plant, who perform tasks involving a broad range of skilled applications in a varied work context, using some discretion and judgement in selecting equipment, services or contingency measures.

### **Pathways Information**

Not applicable.

### **Licensing/Regulatory Information**

Not applicable.

### **Entry Requirements**

Not applicable.

## Employability Skills Summary

The following table includes a summary of the employability skills as identified by the resources and infrastructure industry for this qualification. The table should be interpreted in conjunction with the detailed requirements of each unit of competency packaged in this qualification. The outcomes required here are broad industry requirements that may vary depending on packaging options.

Employability Skill	Industry/enterprise requirements for this qualification include:
Communication	<ul style="list-style-type: none"> <li>• speak clearly and directly</li> <li>• listen carefully to instructions and information</li> <li>• read and interpret work instructions and safety signs</li> <li>• calculate basic weights, distances and volumes</li> <li>• complete incident and maintenance reports</li> <li>• adjust communication style to meet the needs of people with diverse backgrounds</li> </ul>
Teamwork	<ul style="list-style-type: none"> <li>• apply teamwork in a range of situations, particularly in a safety context</li> <li>• contribute to the planning and execution of operations</li> <li>• work cooperatively with people of different ages, gender, race, religion or political persuasion and people with disability</li> <li>• recognise and respond sensitively to people from culturally and linguistically diverse backgrounds</li> </ul>
Problem-solving	<ul style="list-style-type: none"> <li>• adjust work methods in response to changing weather and site conditions</li> <li>• participate in team solutions to safety issues</li> </ul>
Initiative and enterprise	<ul style="list-style-type: none"> <li>• independently adapt to changing work conditions or different work areas</li> <li>• identify potential improvements to working practice and conditions</li> <li>• identify and assess risks in the workplace</li> </ul>
Planning and organising	<ul style="list-style-type: none"> <li>• manage time and priorities to complete work</li> <li>• identify and obtain appropriate equipment and permits</li> <li>• identify potential hazards and prepare appropriate responses</li> <li>• follow procedures and techniques relevant to the equipment and work being done</li> </ul>
Self-management	<ul style="list-style-type: none"> <li>• take responsibility for planning and organising own work priorities and completing assigned tasks</li> <li>• monitor own performance to ensure work will be completed well and on time</li> <li>• understand the standard of work expected at a work site</li> </ul>
Learning	<ul style="list-style-type: none"> <li>• be willing to learn new ways of working</li> <li>• seek information to improve performance from people and</li> </ul>

	workplace documents like policies, procedures etc <ul style="list-style-type: none"> <li>• understand equipment characteristics, technical capabilities, limitations and procedures</li> </ul>
Technology	<ul style="list-style-type: none"> <li>• use technology to monitor and report on work progress</li> <li>• use communications technology appropriate to the workplace (email, mobile, radio, etc)</li> <li>• operate equipment safely</li> </ul>

## Packaging Rules

### Requirements for completion of the qualification

The following table provides the packaging rules for this qualification, followed by the list of relevant units of competency.

**Note about regulations:** RIERR302A and RIIGOV201A are **Mandatory in NSW**

Successful completion of thirteen (13) units of competency made up of:

- five (5) Core units, and
- eight (8) elective units of which:
  - at least six (6) must come from the Group A listed below
  - up to two (2) from the Group B electives listed below or from Certificate II, Certificate III or Certificate IV level from this, or any other Training Package

Units of competency chosen must be relevant to the competency requirements for the job function.

Care must be taken to ensure that all prerequisites specified within imported units, or units chosen as electives, are complied with.

Core units of competency	
<i>Unit code</i>	<i>Unit title</i>
RIIENV302A	Apply environmentally sustainable work practices
RIICOM201A	Communicate in the workplace
RIIOHS201A	Work safely and follow OHS policies and procedures
RIIRIS301B	Apply risk management processes
	<b><i>And either</i></b>
RIIQUA201A	Maintain and monitor site quality standards
	<b><i>OR</i></b>

RIIGOV201A	Comply with site work processes/procedures ( <i>Coal sector only, Mandatory in NSW</i> )
<b>Group A electives</b>	
<i>Unit code</i>	<i>Unit title</i>
FPPSTM320A	Manage steam boiler startup
FPPSTM330A	Shut down and bank steam boiler
PMAOPS206B	Operate separation equipment
PMAOPS307B	Transfer bulk fluids into/out of storage facility
PMAOPS330B	Communicate pipeline control centre operations
MSAPMPER300C	Issue work permits
RIICOM301B	Communicate information
RIICOM302A	Communicate workplace information
RIIERR302A	Respond to local emergencies and incidents ( <i>Mandatory in Coal sector in NSW</i> )
RIIHAN311A	Conduct operations with integrated tool carrier
RIIMCP301A	<b>Monitor coal preparation plant operations</b>
RIIMPG301A	Control and monitor automated plant/machinery
RIIMPO304B	Conduct wheel loader operations
RIIMPO305B	Conduct coal stockpile dozer operations
RIIMPO306A	Operate plant/machinery on live stockpiles
RIIMPO308B	Conduct tracked dozer operations
RIIMPO309A	Conduct wheeled dozer operations
RIIMPO310B	Conduct grader operations
RIIMPO311A	Conduct haul truck operations
RIIMPO331A	Conduct stockpile dozer operations
RIIOHS301A	Conduct safety and health investigation

RIIPBE301A	Conduct calcinations activities
RIIPBE302A	Conduct bacterial oxidation
RIIPBE303B	Conduct filtering process
RIIPBE304B	Conduct heavy media separation
RIIPBE305A	Conduct high tension separation
RIIPBE306A	Conduct leaching process
RIIPBE307A	Conduct pressure oxidation
RIIPBE308B	Conduct thickening and clarifying process
RIIPBE309B	Conduct wet gravity separation
RIIPBE310B	Conduct flotation process
RIIPBE311B	Conduct magnetic separation
RIIPBP301A	Process lime products
RIIPBP302A	Control acid plant operations
RIIPEO201B	Conduct conveyor operations
RIIPEO203B	Conduct stacker operations
RIIPEO205A	Conduct ship loading operations
RIIPEO302	Operate and monitor ore car dumpers
RIIPGP201A	Conduct pump operations
RIIPGP202A	Handle reagents
RIIPGP301A	Conduct drying activities
RIIPGP302A	Monitor and operate auxiliary plant and equipment
RIIPHA301A	Conduct milling/grinding
RIIPHA302A	Operate and monitor filter processes
RIIPRE301A	Conduct electrowinning/electrorefining operations
RIIPRE302A	Conduct elution processes

RIIPRE303A	Conduct gold room operations
RIIPRE304A	Monitor casting quality
RIIPRO301C	Conduct crushing and screening plant operations
RIIPRO302A	Perform processing control room operations
RIIPSM301A	Cast a blast furnace
RIIPSM302A	Cast ingots
RIIPSM303A	Operate a blast furnace
RIIPSM304A	Operate furnaces
RIIPSM305A	Operate converters
RIIPSM306A	Supply molten metal and additives to furnaces
RIIPSM307A	Control molten metal in holding furnace/vessel
RIIPSM308A	Monitor and maintain furnace gas efficiency
RIIPSM309A	Monitor and maintain flue gas efficiency
RIISAM202A	Isolate and access plant
RIISRM301B	Blend stockpile materials
RIISRM302B	Conduct stockpile reclaiming operations
RIISRM304B	Maintain stockpiles
RIIWBP203B	Monitor tailings dam environment
RIIWMG302A	Reclaim and treat water system
UEPOPS316B	Operate and monitor boiler steam/water cycle
<b>Group B electives</b>	
<i>Unit code</i>	<i>Unit title</i>
BSBPUR301B	Purchase goods and services
BSBRKG304B	Maintain business records
PMAOPS223B	Operate and monitor valve systems

PMAOPS230B	Monitor, operate and maintain pipeline stations and equipment
PMAOPS335A	Conduct pipeline pigging
PMAOPS202B	Operate fluid mixing equipment
PMAOPS205B	Operate heat exchangers
PMAOPS207B	Operate powered separation equipment
PMAOPS208B	Operate chemical separation equipment
PMLOHS301B	Work safely with instruments that emit ionizing radiation
RIIBLA306A	Conduct accretion firing
RIIERR205A	Apply initial response First Aid
RIIERR301A	Respond to mine incident
RIIERR302A	Respond to local emergencies and incidents
RIIERR303A	Operate in self-contained regenerative oxygen breathing apparatus
RIIERR308A	Extricate and transport people involved in incidents
RIIHAN305A	Operate a gantry or overhead crane
RIIHAN307A	Operate a vehicle loading crane
RIIMCP202A	Conduct rail dispatch operations
RIIMEX203B	Break oversize rock
RIIMPG201A	Connect and disconnect reefer units
RIIMPO206B	Conduct bulk water truck operations
RIIMPO208A	Operate support equipment
RIIMPO332A	Conduct operations with skid steer loader
RIIOHS202A	Enter and work in confined spaces
RIIOHS204A	Work safely at heights
RIIPBE201A	Conduct aeration process
RIIPBE202A	Conduct digestion process



RIIPBE203A	Conduct precipitation operations
RIIPBE204A	Conduct reduction process
RIIPBE205B	Conduct roasting operations
RIIPBP202A	Conduct air cleaning activities
RIIPEO204A	Conduct shore side mooring operations
RIIPGP201A	Conduct pump operations
RIIPGP204A	Carry out bore-field operations
RIIPHA201A	Operate raw material feed systems
RIIPRE201A	Conduct solvent extraction
RIIPRE202A	Prepare and carry out electrolytic cleaning process
RIIPRE203A	Prepare for sintering activities
RIIPRE204A	Sinter materials
RIIPRO202A	Conduct screening and conveying operations
RIIPRO204A	Bulk package and store product
RIIPRO205A	Conduct blending plant operations
RIIPSM201A	Tap furnaces
RIIPSM202A	Prepare for pelletising activities
RIIPSM203A	Produce pellets
RIISAM214A	Provide support to electrical tradesperson
RIISAM301A	Test operational functions of vehicles and equipment
RIISAM304A	Install, commission and maintain major conveyor equipment and systems
RIISAM305A	Repair and splice conveyor belting
RIISTD301A	Take environmental samples and measurements
RIIVEH201B	Operate light vehicle

RIIVEH302A	Operate multi-combination vehicle
RIIWBP201A	Treat and dispose of rejects and tailings
RIIWBP202A	Distribute tailings
TLIA2009A	Complete and check import/export documentation