

RII Resources and Infrastructure Industry Training Package

Version 2.00

WA NOMINAL HOURS GUIDE

Introduction

This Guide has been generated to enable the stakeholders in this Industry in Western Australia to participate in the managed implementation of the National RII Resources and Infrastructure Industry Training Package.

This Guide is designed to aid Registered Training Organisations (RTOs) to convert from existing Training Package qualifications to new Training Package qualifications within the scope of their training delivery.

The Guide should be read in conjunction with the endorsed components of the Training Package

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Transition Arrangements

Registered Training Organisations (RTOs) are required to deliver Training Package qualifications in accordance with the Standards for RTOs. For further information visit the Training Accreditation Council website www.tac.wa.gov.au.

Nominal Hours

Nominal hours are the hours of training notionally required to achieve the outcomes of units of competency.

Nominal hours are identified for nationally endorsed qualifications. Nominal hours may vary for a qualification depending on the selection of units of competency.

In Western Australia, nominal hours are used as a mechanism for funding allocation.

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Qualifications and Nominal Hours

The following table provides a summary of the qualifications and nominal hours in the industry.

National Code	National Title	Nominal Hours
RII10115	Certificate I in Resources and Infrastructure Operations	180
RII20115	Certificate II in Resources and Infrastructure Work Preparation	260
RII20215	Certificate II in Surface Extraction Operations	220
RII20315	Certificate II in Underground Coal Mining	320
RII20415	Certificate II in Underground Metalliferous Mining	260
RII20515	Certificate II in Resource Processing	260
RII20615	Certificate II in Mining / Field Exploration	590
RII20715	Certificate II in Civil Construction	388
RII20815	Certificate II in Bituminous Surfacing	376
RII20915	Certificate II in Drilling Operations	391
RII21015	Certificate II in Drilling Oil/Gas (Offshore)	380
RII21115	Certificate II in Drilling Oil/Gas (On shore)	375
RII21215	Certificate II in Well Servicing Operations	295
RII21315	Certificate II in Cross Industry Operations	310
RII30115	Certificate III in Surface Extraction Operations	455
RII30215	Certificate III in Underground Coal Operations	646
RII30315	Certificate III in Underground Metalliferous Mining	485
RII30415	Certificate III in Resource Processing	415
RII30515	Certificate III in Mining Exploration	720
RII30615	Certificate III in Small Mining Operations	800
RII30715	Certificate III in Mine Emergency Response and Rescue	540
RII30815	Certificate III in Civil Construction Plant Operations	636
RII30915	Certificate III in Civil Construction	696

RII31215	Certificate III in Civil Foundations	616
RII31615	Certificate III in Trenchless Technology	750
RII31815	Certificate III in Drilling Operations	495
RII31915	Certificate III in Drilling Oil & Gas (Off shore)	440
RII32015	Certificate III in Drilling Oil/Gas (On shore)	349
RII32215	Certificate III in Well Servicing Operations	394
RII40115	Certificate IV in Surface Extraction Operations	550
RII40215	Certificate IV in Surface Coal Mining (Open Cut Examiner)	850
RII40315	Certificate IV in Metalliferous Mining Operations (Underground)	760
RII40415	Certificate IV in Underground Coal Operations	850
RII40515	Certificate IV in Resource Processing	650
RII40615	Certificate IV in Civil Construction Operations	610
RII40715	Certificate IV in Civil Construction Supervision	540
RII40815	Certificate IV in Civil Construction Design	594
RII40915	Certificate IV in Drilling Operations	440
RII41015	Certificate IV in Drilling Oil & Gas (Off shore)	500
RII41115	Certificate IV in Drilling Oil & Gas (On shore)	320
RII41215	Certificate IV in Well Servicing Operations	430
RII50115	Diploma of Surface Operations Management	920
RII50215	Diploma of Underground Metalliferous Mining Management	850
RII50315	Diploma of Minerals Processing	920
RII50415	Diploma of Civil Construction Management	710
RII50515	Diploma of Civil Construction Design	1004
RII50615	Diploma of Drilling Operations	650
RII50715	Diploma of Drilling Oil & Gas (Off shore)	890
RII50815	Diploma of Drilling Oil & Gas (On shore)	480
RII50915	Diploma of Underground Coal Mining Management	760
RII51015	Diploma of Well Servicing Operations	675

RII60115	Advanced Diploma of Metalliferous Mining	1150
RII60215	Advanced Diploma of Extractive Industries Management	1095
RII60315	Advanced Diploma of Underground Coal Mining Management	890
RII60415	Advanced Diploma of Drilling Management	640
RII60515	Advanced Diploma of Civil Construction Design	795
RII60615	Advanced Diploma of Civil Construction	875
RII60715	Advanced Diploma of Surface Coal Mining Management	1115

Units of Competency and Nominal Hours

The following table provides a summary of the units of competency and nominal hours in the industry.

National Code	National Title	Nominal Hours
RIIBEF201D	Plan and organise work	16
RIIBEF202D	Identify and rectify site operating problems	30
RIIBEF301D	Run on-site operations	30
RIIBEF302D	Monitor site production activities	40
RIIBEF401D	Manage non-routine, complex technical situations	40
RIIBEF402D	Supervise on-site operations	30
RIIBEF601D	Conduct business negotiations	60
RIIBEF602D	Establish and evaluate operational performance management systems	60
RIIBEF603D	Manage the decision making process	40
RIIBEF604D	Conduct a feasibility study	70
RIIBEF605D	Resource site plans and objectives	80
RIIBHD301D	Conduct surface blast hole drilling operations	80
RIIBHD302D	Conduct underground development drilling	30
RIIBHD303D	Conduct long hole drilling	30
RIIBHD304D	Set up and prepare for open-cut drilling operations	40
RIIBHD305D	Conduct down-hole hammer drilling	40
RIIBHD401D	Supervise blast hole drilling operations	45
RIIBHD501D	Manage blast hole drilling operations	50
RIIBLA201D	Support shotfiring operations	80
RIIBLA202E	Support underground shotfiring operations	80
RIIBLA203D	Conduct mobile mixing of explosives	40
RIIBLA204D	Store, handle and transport explosives in underground coal mines	20
RIIBLA205D	Store, handle and transport explosives	30

RIIBLA301D	Conduct surface shotfiring operations	80
RIIBLA302D	Conduct shotfiring operations in underground coal mines	80
RIIBLA303D	Conduct underground development shotfiring	80
RIIBLA304D	Conduct underground production shotfiring	80
RIIBLA305D	Conduct secondary blasting	20
RIIBLA306D	Conduct accretion firing	40
RIIBLA307D	Conduct a blast survey	20
RIIBLA308D	Conduct electronic blasting operations	45
RIIBLA401D	Manage blasting operations	40
RIIBLA402D	Monitor and control the effects of blasting on the environment	20
RIIBLA601E	Design blasts	60
RIIBLA602D	Establish and maintain a blasting system	80
RIICAR301D	Rehabilitate exploration site	50
RIICAR302D	Rehabilitate small mine site	50
RIICAR401D	Supervise rehabilitation operations	20
RIICBM201D	Strip pile heads	16
RIICBM301D	Maintain concrete bridges	68
RIICBM302D	Install pre-cast girders	68
RIICBM303D	Install pre-cast parapets	68
RIICBM304D	Operate a bridge inspection unit	68
RIICBM305D	Install pre-cast concrete bridge decks	68
RIICBM306D	Undertake concreting work on concrete bridges	68
RIICBM307D	Construct formwork and false work on concrete bridges	92
RIICBS201D	Conduct tack coat spraying operations	16
RIICBS202D	Hand spread asphalt	16
RIICBS203D	Safely handle bituminous materials	16
RIICBS204D	Conduct aggregate spreader box operations	16
RIICBS205D	Roll aggregate in sprayed sealing operations	24

RIICBS206D	Conduct pavement sweeping operations	16
RIICBS207D	Take samples of materials used in road surfacing	8
RIICBS208D	Conduct road maintenance operations	28
RIICBS301D	Conduct profile planer operations	68
RIICBS302D	Conduct paver screeding operations	48
RIICBS303D	Conduct materials transfer vehicle operations	48
RIICBS304D	Compact asphalt with rollers	36
RIICBS305D	Conduct asphalt paver operations	44
RIICBS306D	Conduct slurry sealing operations	68
RIICBS307D	Conduct bitumen sprayer operations	84
RIICBS308D	Load aggregate using a purpose built loader	16
RIICBS309D	Conduct self-propelled aggregate spreader operations	24
RIICBS310D	Conduct patching operations	52
RIICBS311D	Produce asphalt products	84
RIICBS312D	Conduct bitumen tanker operations	52
RIICBS401D	Apply the principles of asphalt paving and compaction	40
RIICBS402D	Apply the principles for the application of bituminous sprayed treatment	45
RIICBS403D	Apply the principles for the application of polymer modified binder	25
RIICBS404D	Apply the principles for the selection and use of bituminous emulsion	20
RIICBS405D	Apply the principles for the application of slurry surfacing	40
RIICBS406D	Apply the principles of pavement profiling using a profiler	30
RIICBS407D	Apply the principles for the manufacture and delivery of hot mix asphalt	40
RIICBS408D	Apply the principles for the manufacture of cold mix	40
RIICBS409D	Apply the principles for the manufacture of polymer modified binder	40
RIICBS410D	Apply the principles for the manufacture of bituminous emulsion	40
RIICBS411D	Apply the principles for the manufacture of slurry surfacing	40
RIICCM201D	Carry out measurements and calculations	16
RIICCM202D	Identify, locate and protect underground services	24

RIICCM203D	Read and interpret plans and job specifications	32
RIICCM204D	Place and fix reinforcement materials	40
RIICCM205E	Carry out manual excavation	8
RIICCM206D	Support plant operations	8
RIICCM207D	Spread and compact materials manually	12
RIICCM208D	Carry out basic levelling	8
RIICCM209D	Carry out concrete work	36
RIICCM210D	Install trench support	8
RIICCM211D	Erect and dismantle temporary fencing and gates	32
RIICCM301D	Construct and dismantle fences and gates	32
RIICCR401D	Develop and maintain positive community relations	20
RIICCR501D	Conduct sales in construction materials operations	70
RIICCR601D	Manage customer relationships	30
RIICFW301D	Construct underpinning	52
RIICFW302D	Install temporary and permanent rock anchors	20
RIICFW303D	Install primary ground support	20
RIICFW304D	Conduct pile driving operations	32
RIICFW305D	Conduct cast in-situ pilings operations	32
RIICFW306D	Direct pile driving operations	20
RIICFW307D	Direct cast in-situ piling operations	20
RIICOM201D	Communicate in the workplace	20
RIICOM301D	Communicate Information	20
RIICOM302D	Communicate workplace information	40
RIICPL301D	Install water mains pipelines	36
RIICPL302D	Install stormwater systems	36
RIICPL303D	Install sewer pipelines	36
RIICPL304D	Install pre-cast gully pits	36
RIICPL305D	Install pre-cast access chambers	36

RIICPL401D	Apply the principles for the installation of underground service using open excavation	60
RIICRC201D	Repair potholes	28
RIICRC202D	Install signs	12
RIICRC203D	Install sub-soil drainage	16
RIICRC204D	Install and maintain roadside fixtures	24
RIICRC205D	Install utility poles	32
RIICRC206D	Install pre-cast concrete crash barriers	32
RIICRC207D	Install noise barriers	32
RIICRC208D	Lay pipes	32
RIICRC209D	Lay reinforced concrete box culverts	32
RIICRC301D	Maintain drainage systems	12
RIICRC302D	Place and form concrete kerb, channel and fixtures	28
RIICRC303D	Lay pavers	20
RIICRC304D	Maintain sealed roads	24
RIICRC305D	Conduct road construction paver screeding operations	48
RIICRC306D	Conduct earthworks	68
RIICRC307D	Conduct road pavement construction	20
RIICRC308D	Conduct paver operations	68
RIICRC309D	Conduct stabiliser operations	68
RIICRC310D	Construct and maintain roads	60
RIICRC311D	Conduct concrete road paver operations	60
RIICRC312D	Setup and maintain concrete paver stringlines	40
RIICRC313D	Conduct concrete road curing and texturing operations	24
RIICRC314D	Handle concrete materials	24
RIICRC315D	Use concreting materials and equipment	60
RIICRC316D	Place and compact concrete	170
RIICRC317D	Finish concrete pavements	40
RIICRC318D	Cure concrete	16

RIICRC319D	Saw and cut concrete pavements to initiate planned cracks	16
RIICRC320D	Seal concrete pavements	12
RIICRC321D	Use automated paving guidance systems	80
RIICRC322D	Receive, check and record concrete deliveries	8
RIICRC323D	Insert tie bars in fresh concrete	8
RIICRC401D	Apply the principles of flexible pavement construction	50
RIICRC402D	Apply the principles of rigid pavement construction	30
RIICRC403D	Apply the principles of the stabilisation of materials	50
RIICRC404D	Inspect and report on pavement condition	24
RIICRC405D	Carry out pavement condition measurement	50
RIICRC406D	Apply the principles of pavement maintenance	50
RIICRM201E	Escort mobile works	20
RIICRM202D	Handle and store road marking materials	8
RIICRM203D	Conduct pedestrian road marking operations	20
RIICRM204D	Prepare surface for road marking	12
RIICRM205D	Conduct road marking measuring operations	12
RIICRM206D	Conduct airless and atomised spraying operations	16
RIICRM207D	Install raised pavement markers	12
RIICRM301D	Conduct ride on road marking operations	12
RIICRM302D	Conduct long line road marking operations	32
RIICRM303D	Conduct thermo plastic road marking operations	24
RIICSG401D	Apply the principles of civil concrete structures construction	60
RIICSG402D	Apply the principles of civil steel structures construction	60
RIICSG403D	Apply the principles of civil timber structure construction	60
RIICSG404D	Apply the principles of civil masonry, crib and gabion structure construction	60
RIICSG405D	Carry out inspections of civil structures	60
RIICSG406D	Apply principles of maintenance of civil structures	60
RIICTB201D	Maintain timber bridges	30

RIICTB202D	Apply bridge durability treatment	55
RIICTB203D	Produce drawings and sketches	20
RIICTB301D	Undertake visual inspection	55
RIICTB302D	Install temporary support members	30
RIICTB303D	Erect a temporary modular support system (bailey) on an existing bridge	40
RIICTB304D	Install or replace sub-structure members	40
RIICTB305D	Install or replace super-structure members	40
RIICTB306D	Splice and connect timber members	30
RIICTB307D	Assemble a temporary modular bridge	40
RIICTB308D	Install or replace truss members	30
RIICTB309D	Construct, maintain and remove coffer dams	50
RIICTB310D	Construct specialised timber deck systems	55
RIICTC301D	Install tunnelling constructions services	68
RIICTC302D	Line tunnel	68
RIICTC303D	Excavate tunnel by machine	24
RIICTC304D	Muck out tunnel earthworks	12
RIICTC305D	Construct portals	20
RIICTC401D	Apply the principles of tunnel construction	60
RIICTT301D	Conduct of fluid assisted directional boring	68
RIICTT302D	Conduct impact moling, ramming and augering	68
RIICTT303D	Control micro tunnelling and pipe-jacking	68
RIICTT304D	Undertake on-line replacement for existing pipeline systems	68
RIICTT305D	Undertake localised repair and sealing of existing pipeline systems	68
RIICTT306D	Install cure in-place linings for existing pipeline systems	68
RIICTT307D	Spray linings for existing pipeline systems	68
RIICTT308D	Install close-fit linings for existing pipeline systems	68
RIICTT309D	Install slip lining in existing pipeline systems	68
RIICTT310D	Renovate large diameter pipes and chambers	68

RIICTT401D	Apply the principles for the installation of underground services using trenchless technology	60
RIICTT402D	Apply principles for repair & rehabilitation of underground services using trenchless technology	60
RIICWD501D	Prepare detailed design of foundations	60
RIICWD502D	Prepare detailed design of lighting	60
RIICWD503D	Prepare work zone traffic management plan	30
RIICWD504D	Prepare detailed design of environmental controls	60
RIICWD505D	Prepare detailed design of landscaping	60
RIICWD506D	Prepare detailed design of canals	60
RIICWD507D	Prepare detailed geotechnical design	60
RIICWD508D	Prepare detailed design of rural roads	60
RIICWD509D	Prepare detailed design of urban roads	60
RIICWD510D	Prepare detailed design of busways	60
RIICWD511D	Prepare detailed design of sub-divisions	60
RIICWD512D	Prepare detailed design of motorways and interchanges	60
RIICWD513D	Prepare detailed design of rail civil infrastructure	60
RIICWD514D	Prepare detailed design of dams	60
RIICWD515D	Prepare detailed design of airfield civil works	60
RIICWD516D	Prepare detailed design of bicycle ways	50
RIICWD517D	Prepare detailed design of industrial hardstands	60
RIICWD518D	Prepare detailed design of open car parks	50
RIICWD519D	Prepare detailed design of intermodal facilities civil works	60
RIICWD520D	Prepare detailed design of rigid pavements	60
RIICWD521D	Prepare detailed design of flexible pavements	60
RIICWD522D	Prepare stabilised material mix design	60
RIICWD523D	Prepare asphalt mix design	36
RIICWD524D	Prepare design of spray seal surfacing	60
RIICWD525D	Select pavement surfacing	36
RIICWD526D	Prepare detailed traffic analysis	60

RIICWD527D	Prepare detailed design of traffic signals	60
RIICWD528D	Prepare detailed design of traffic management systems	60
RIICWD529D	Prepare detailed design of underground services	60
RIICWD530D	Prepare detailed design of surface drainage	30
RIICWD531D	Prepare detailed design of subsurface drainage	60
RIICWD532D	Prepare detailed design of tunnels	60
RIICWD533D	Prepare detailed design of civil concrete structures	60
RIICWD534D	Prepare detailed design of civil steel structures	60
RIICWD535D	Prepare detailed design of civil timber structures	60
RIICWD536D	Prepare detailed design of civil masonry, crib and gabion structures	60
RIICWD537D	Prepare detailed design of marine structures civil works	70
RIICWD601D	Manage the civil works design process	180
RIICWM401D	Supervise civil works	80
RIICWM402D	Supervise civil works contractors	60
RIICWM501D	Implement civil construction plan	70
RIICWM502D	Implement civil works maintenance program	70
RIICWM503D	Prepare civil works cost estimate	60
RIICWM504D	Prepare civil works bill of quantities	60
RIICWM505D	Prepare civil works schedule of rates	60
RIICWM601D	Establish civil construction plans	180
RIICWM602D	Establish civil works maintenance programs	180
RIIDES301D	Inspect, test and maintain diesel engine systems and their ancillary systems	80
RIIDES302D	Inspect, test and maintain joints on diesel engine systems	40
RIIDES303D	Inspect, test and maintain cooling systems on diesel engine systems	20
RIIDES304D	Inspect, test and maintain inlet systems on diesel engine systems	20
RIIDES305D	Inspect, test and maintain exhaust systems on diesel engine systems	20
RIIDES306D	Inspect, test and maintain safety shutdown systems on diesel engine systems	40
RIIDES307D	Test, determine the cause and rectify excessive emission levels on diesel engine systems	20

RIIDML401D	Apply the principles of demolitions	60
RIIEGS201D	Operate in isolated and remote situations	50
RIIEGS202D	Conduct field work	160
RIIEGS301D	Operate and maintain instruments and field equipment	120
RIIEGS302D	Plan and undertake field trip	120
RIIEGS303D	Provide geological field assistance	100
RIIEGS304D	Mobilise equipment and materials	60
RIIEGS305D	Navigate in remote or trackless areas	20
RIIEGS306D	Prepare drill site	40
RIIENV201D	Identify and assess environmental and heritage concerns	20
RIIENV202D	Suppress airborne contaminants	20
RIIENV301D	Conduct atmospheric monitoring	40
RIIENV302D	Apply environmentally sustainable work practices	15
RIIENV401D	Supervise dust and noise control	40
RIIENV402D	Implement and monitor environmental policies	40
RIIENV501D	Implement and maintain environmental management plan	60
RIIENV502D	Undertake process or project environmental impact assessment	80
RIIENV601D	Establish and maintain the environmental management system	90
RIIERR201D	Conduct fire team operations	16
RIIERR202E	Contribute to the control of emergencies and critical situations	25
RIIERR203D	Escape from hazardous situations unaided	40
RIIERR204D	Provide aided rescue to endangered personnel	40
RIIERR205D	Apply initial response First Aid	20
RIIERR301D	Respond to mine incident	40
RIIERR302D	Respond to local emergencies and incidents	20
RIIERR303D	Operate in self-contained regenerative oxygen breathing apparatus	40
RIIERR304D	Control emergencies and critical situations	30
RIIERR305D	Control underground fires	40

RIIERR306D	Conduct underground search	40
RIIERR307D	Extricate casualties from underground incident	40
RIIERR308D	Extricate and transport people involved in incidents	40
RIIERR309D	Establish and operate from fresh air base	40
RIIERR310D	Provide support for rescue operations	40
RIIERR311D	Assess and implement life support systems and stabilise casualties	40
RIIERR401D	Apply and monitor surface operations emergency preparedness and response systems	80
RIIERR402D	Apply and monitor underground coal mine emergency preparedness and response systems	60
RIIERR403D	Lead rescue team	40
RIIERR404D	Apply and monitor underground Metalliferous mine emergency preparedness and response systems	60
RIIERR501D	Implement underground coal mine emergency preparedness and response systems	60
RIIERR503D	Implement emergency preparedness and response systems	80
RIIERR504D	Manage major incidents and emergencies	70
RIIERR601D	Establish and maintain mine emergency preparedness and response systems	100
RIIERR602D	Establish and maintain underground coal mine emergency preparedness and response systems	80
RIIFIA401D	Manage financial records	30
RIIGOV201D	Comply with site work processes/procedures	20
RIIGOV401D	Apply, monitor and report on compliance systems	80
RIIGOV501D	Identify, implement and maintain legal compliance requirements	80
RIIGOV601D	Establish, maintain and develop a statutory compliance management system	80
RIIHAN201D	Operate a forklift	40
RIIHAN202D	Handle and store cargo	20
RIIHAN203D	Conduct lifting operations	30
RIIHAN204D	Load and unload cargo/goods	30
RIIHAN205D	Secure cargo	30
RIIHAN206D	Transport plant, equipment and personnel	30
RIIHAN207D	Operate personnel and materials hoists	20
RIIHAN208D	Perform dogging	40

RIIHAN209D	Perform basic rigging	40
RIIHAN210D	Perform intermediate rigging operations	40
RIIHAN211D	Conduct basic scaffolding operations	40
RIIHAN212D	Conduct non-slewing crane operations	40
RIIHAN213D	Work effectively in the drilling Industry	18
RIIHAN301D	Operate elevating work platform	20
RIIHAN302D	Conduct intermediate scaffolding operations	100
RIIHAN304D	Conduct slewing crane operations	50
RIIHAN305D	Operate a gantry or overhead crane	40
RIIHAN306D	Carry out lifting using multiple cranes	40
RIIHAN307D	Operate a vehicle loading crane	40
RIIHAN308E	Load and unload plant	16
RIIHAN309E	Conduct telescopic materials handler operations	80
RIIHAN310D	Conduct crane operations underground	35
RIIHAN311E	Conduct operations with integrated tool carrier	68
RIIHAN401D	Organise and monitor wharf/terminal operations	25
RIIHAN402D	Process movement of containers and cargo	30
RIIIMG301D	Maintain site records	8
RIILAT401D	Provide leadership in the supervision of Indigenous employees	40
RIILAT402D	Provide leadership in the supervision of diverse work teams	45
RIILAT601D	Manage group processes	40
RIIMCO201D	Conduct spreader operations	60
RIIMCO202D	Conduct mobile slew conveyor operations	40
RIIMCO301D	Conduct control centre operations	60
RIIMCO302D	Conduct surface miner operations	60
RIIMCO303D	Conduct auger miner operations	80
RIIMCP202D	Conduct rail dispatch operations	40
RIIMCP301D	Monitor plant operations for coal preparation	60

RIIMCU201D	Operate power tram	40
RIIMCU202D	Conduct tracked vehicle/plant operations	40
RIIMCU203D	Conduct wheeled vehicle operations (non-articulated)	40
RIIMCU204D	Conduct wheeled vehicle operations (articulated)	40
RIIMCU205D	Conduct rotational drilling	40
RIIMCU206D	Install, maintain and recover gas drainage systems	40
RIIMCU207D	Install, maintain and recover electrical services	20
RIIMCU208D	Conduct basic strata control operations	40
RIIMCU209D	Conduct roadway maintenance	20
RIIMCU210D	Conduct stonedusting operations	20
RIIMCU211D	Install and maintain explosion barriers	20
RIIMCU212E	Construct and maintain basic ventilation devices	20
RIIMCU213D	Conduct feeder breaker operations	40
RIIMCU214D	Conduct face ventilation operations	40
RIIMCU215D	Operate longwall ancillary equipment	40
RIIMCU216D	Maintain lamp cabin operations	40
RIIMCU301D	Conduct specialised strata control operations	40
RIIMCU302E	Construct and maintain ventilation devices	35
RIIMCU303D	Conduct continuous miner operations	100
RIIMCU304D	Conduct shuttle car operations	40
RIIMCU305D	Conduct outburst mining operations	40
RIIMCU306D	Conduct shearer operations	40
RIIMCU307D	Conduct longwall face equipment operations	100
RIIMCU308D	Install and recover longwall equipment	40
RIIMCU309D	Operate breaker line supports	40
RIIMCU310D	Conduct flexible conveyor train (FCT) operations	40
RIIMCU311D	Monitor control processes	40
RIIMCU401D	Conduct special roadway operations	60

RIIMCU402D	Apply spontaneous combustion management measures	40
RIIMCU403D	Apply and monitor the gas management plan	60
RIIMCU404E	Apply and monitor the gas drainage management plan	60
RIIMCU405D	Apply and monitor the outburst management plan	60
RIIMCU406D	Apply and monitor the inrush management plan	70
RIIMCU407D	Apply and monitor the strata management plan	60
RIIMCU408D	Apply the spontaneous combustion management plan	60
RIIMCU501D	Implement the spontaneous combustion management plan	60
RIIMCU502D	Implement the gas management plan	60
RIIMCU503D	Implement the gas drainage management plan	60
RIIMCU504D	Implement the outburst management plan	60
RIIMCU505D	Implement the inrush management plan	80
RIIMCU506D	Implement the strata management plan	60
RIIMCU601D	Establish and maintain the spontaneous combustion management plan	80
RIIMCU602D	Establish and maintain the gas management system	80
RIIMCU603D	Establish and maintain the gas drainage management plan	80
RIIMCU604D	Establish and maintain the outburst management plan	80
RIIMCU605D	Establish and maintain the inrush management plan	100
RIIMCU606D	Establish and maintain the mining method and strata management systems	80
RIIMEX201D	Suppress dust in open-cut environment	20
RIIMEX202D	Install open-cut mine ground support	30
RIIMEX203D	Break oversize rock	30
RIIMEX204D	Conduct workboat/barge operations	50
RIIMEX301D	Conduct dredging operations	45
RIIMEX302D	Assess ground conditions	20
RIIMEX401D	Apply pit plan	160
RIIMEX402D	Supervise dredging operations	45
RIIMEX403D	Apply the principles of canal construction	60

RIIMEX404D	Apply and monitor systems for stable mining	80
RIIMEX405D	Apply and monitor systems and methods of surface coal mining	80
RIIMEX406D	Apply and monitor mine transport systems and production equipment	80
RIIMEX501D	Implement pit plan	120
RIIMEX502D	Implement systems and methods of mining	80
RIIMEX503D	Manage dredging operations	50
RIIMEX601D	Plan pit development	90
RIIMEX602D	Establish and maintain surface mining ground control and slope stability systems	120
RIIMEX603D	Establish and maintain underground mining ground control and stable mining systems	80
RIIMEX604D	Establish and maintain surface product haulage and transport systems	80
RIIMEX605D	Establish, implement and maintain operational management plans	60
RIIMPG201D	Connect and disconnect reefer refrigeration units	20
RIIMPG301D	Control and monitor automated plant/machinery	20
RIIMPO201D	Operate roller/compactor underground	20
RIIMPO202D	Undertake towing underground	20
RIIMPO203D	Support bucket wheel system operations	60
RIIMPO204D	Conduct conveyor shifting dozer operations	40
RIIMPO205D	Operate roller/compactor	20
RIIMPO206D	Conduct bulk water truck operations	40
RIIMPO208E	Operate support equipment	50
RIIMPO210D	Conduct underground truck operations	20
RIIMPO301D	Conduct hydraulic excavator operations	60
RIIMPO302D	Conduct hydraulic shovel operations	60
RIIMPO303D	Conduct rope shovel operations	70
RIIMPO304D	Conduct wheel loader operations	65
RIIMPO305E	Conduct coal stockpile dozer operations	35
RIIMPO306D	Operate plant/machinery on live stockpiles	40
RIIMPO307D	Conduct wheel grader operations in underground mines	40

RIIMPO308E	Conduct tracked dozer operations	60
RIIMPO309E	Conduct wheeled dozer operations	40
RIIMPO310E	Conduct grader operations	60
RIIMPO312D	Conduct scraper operations	60
RIIMPO313D	Conduct face loader operations	50
RIIMPO314D	Operate small open cut mine equipment	40
RIIMPO315D	Conduct tractor operations	52
RIIMPO316D	Conduct self-propelled compactor operations	32
RIIMPO317E	Conduct roller operations	20
RIIMPO318E	Conduct civil construction skid steer loader operations	68
RIIMPO319D	Conduct backhoe/loader operations	50
RIIMPO320E	Conduct civil construction excavator operations	160
RIIMPO321E	Conduct civil construction wheeled front end loader operations	40
RIIMPO322D	Conduct civil construction tracked front end loader operations	68
RIIMPO323D	Conduct civil construction dozer operations	192
RIIMPO324E	Conduct civil construction grader operations	192
RIIMPO325D	Conduct civil construction scraper operations	128
RIIMPO326D	Conduct civil construction water cart operations	32
RIIMPO327D	Conduct pipe layer operations	68
RIIMPO328D	Conduct continuous bucket trencher operations	32
RIIMPO329D	Conduct dragline operations	100
RIIMPO330D	Conduct bucket-wheel operations	80
RIIMPO331D	Conduct operations with stockpile dozer	40
RIIMPO333D	Conduct underground load haul dump operations	30
RIIMPO334D	Conduct skid steer loader operations using attachments	68
RIIMPO335D	Conduct skid steer loader operations without attachments	68
RIIMPO336D	Conduct belly dump truck operations	60
RIIMPO337D	Conduct articulated haul truck operations	60

RIIMPO338D	Conduct rigid haul truck operations	60
RIIMPO401D	Supervise mobile plant operations	35
RIIMPO402D	Apply the principles of earthworks construction	60
RIIMPO403D	Monitor interaction of heavy and light vehicles and mining equipment	60
RIIMPO501D	Implement, monitor, rectify and report on mobile plant and equipment systems	80
RIIMPO502D	Manage the interaction of heavy and light vehicles and mining equipment	100
RIIMPO503D	Manage laser levelling of operating plant	80
RIIMSM301D	Establish a mining claim	60
RIIMSM302D	Plan small mine operations	80
RIIMSM303D	Install underground shaft	80
RIIMSM304D	Inspect small mines operations	80
RIIMSM305D	Conduct materials extraction operations underground	40
RIIMSM306D	Design, develop and maintain pillar system and ground control	60
RIIMSM307D	Install and maintain ventilation systems and equipment	60
RIINHB201D	Load, secure and unload drilling equipment and materials	40
RIINHB202D	Set up/pack up drill site	40
RIINHB203D	Support drilling process	96
RIINHB205E	Assist continuous flight auger drilling	35
RIINHB206E	Assist large diameter auger drilling	35
RIINHB208D	Assist diamond core drilling	20
RIINHB209D	Assist guided boring	20
RIINHB210D	Assist surface directional drilling	20
RIINHB211D	Assist mud rotary drilling	20
RIINHB213D	Assist cable tool drilling	20
RIINHB216D	Assist underground in-seam directional drilling	30
RIINHB217D	Assist horizontal direction drilling	30
RIINHB218D	Assist grouting or cementing operations	20
RIINHB219D	Assist with air drilling	30

RIINHB301D	Set up and prepare for drilling operations	60
RIINHB302D	Conduct reaming	60
RIINHB303D	Install product pipe	40
RIINHB304D	Conduct air drilling	60
RIINHB305E	Conduct continuous flight auger drilling	60
RIINHB306E	Conduct large diameter auger drilling	60
RIINHB307D	Conduct conventional core drilling	60
RIINHB308D	Conduct wireline core drilling	60
RIINHB309E	Conduct guided boring	60
RIINHB310D	Conduct surface directional drilling	60
RIINHB311D	Conduct mud rotary drilling	60
RIINHB312D	Conduct raise boring	60
RIINHB313D	Conduct cable tool drilling	60
RIINHB315D	Conduct top-hole hammer drilling	60
RIINHB316D	Conduct underground in-seam directional drilling	60
RIINHB317D	Install underground in-seam directional drilling standpipes	40
RIINHB318D	Install and operate water and gas control equipment	40
RIINHB319D	Install de-watering conduit and gas drainage equipment	40
RIINHB320D	Construct monitoring bores	80
RIINHB322D	Construct multiple aquifer production bores	40
RIINHB323D	Conduct horizontal directional drilling	60
RIINHB324D	Carry out grouting or cementing operations	40
RIINHB325D	Construct and complete single aquifer production bores	40
RIINHB401D	Plan and supervise the mobilisation of equipment, crew and materials	30
RIINHB402D	Supervise mineral exploration drilling operations	45
RIINHB403D	Supervise geotechnical drilling operations	45
RIINHB404D	Supervise seismic drilling operations	45
RIINHB405E	Supervise water well drilling operations	45

RIINHB406D	Supervise foundation drilling operations	45
RIINHB407D	Supervise horizontal directional drilling operations	45
RIINHB408D	Supervise environmental drilling operations	45
RIINHB409D	Supervise mineral production and development drilling operations	45
RIINHB410D	Supervise surface directional drilling operations	45
RIINHB411D	Construct artesian (flowing) aquifer production bores	40
RIINHB412D	Construct geothermal wells	40
RIINHB413D	Supervise underground in-seam directional drilling operations	60
RIINHB501E	Plan drilling	40
RIIOGD201D	Assist in maintaining rig safety and emergency procedures	30
RIIOGD202D	Carry out equipment and basic rig maintenance	40
RIIOGD203E	Prepare and operate drilling fluid systems	25
RIIOGD204E	Perform rig floor operations	45
RIIOGD205D	Support blow out prevention operations	20
RIIOGD206D	Assist with coal seam gas control	20
RIIOGD209E	Operate and maintain ancillary equipment	40
RIIOGD301E	Conduct and maintain derrick operations	45
RIIOGD302E	Trip casing	20
RIIOGD303E	Trip pipe	25
RIIOGD304D	Apply effective coal seam gas control practices	40
RIIOGD305D	Apply blow out prevention operational procedures	40
RIIOGD401D	Rig up, conduct pre-spud operations and rig down	30
RIIOGD402D	Participate in nipping-up and pressure test	20
RIIOGD403D	Conduct drilling operations	30
RIIOGD404D	Coordinate air drilling operations	40
RIIOGD405D	Carry out well control and blow out prevention	30
RIIOGD406D	Shut down rig	20
RIIOGD501E	Manage rig operations	40

RIIOGD502D	Plan and evaluate rig operations	40
RIIOGD503D	Oversee drilling operations	40
RIIOGD504D	Manage drilling operations	40
RIIOGD505D	Manage drilling induction and orientation	20
RIIOGD506D	Manage rig move and camp move	20
RIIOGD507D	Manage and monitor rig-up and rig-up to spud operations	40
RIIOGD508D	Manage well completion and abandonment	40
RIIOGD601D	Manage multiple drilling operations	40
RIIOGF201D	Carry out deck operations	20
RIIOGF202D	Assist in the transfer of passengers and freight during helicopter operations	10
RIIOGF203D	Contribute to the control of offshore emergencies	20
RIIOGF301D	Monitor, operate and maintain mud pits and equipment	30
RIIOGF302D	Operate drilling fluids and mud pits	30
RIIOGN201E	Carry out rig lease operations	30
RIIOGN302E	Operate mud pumps	20
RIIOGN303D	Operate mud systems	20
RIIPBE201D	Conduct aeration process	40
RIIPBE202D	Conduct digestion process	40
RIIPBE203D	Conduct precipitation operations	40
RIIPBE204D	Conduct reduction process	40
RIIPBE205D	Conduct roasting operations	40
RIIPBE301D	Conduct calcinations activities	25
RIIPBE302D	Conduct bacterial oxidation	40
RIIPBE303D	Conduct filtering process	25
RIIPBE304D	Conduct heavy media separation	40
RIIPBE305D	Conduct high tension separation	30
RIIPBE306D	Conduct leaching process	40
RIIPBE307D	Conduct pressure oxidation	40

RIIPBE308D	Conduct thickening and clarifying process	20
RIIPBE309D	Conduct wet gravity separation	30
RIIPBE310D	Conduct flotation process	50
RIIPBE311D	Conduct magnetic separation	30
RIIPBP202D	Conduct air cleaning activities	40
RIIPBP301D	Process lime products	30
RIIPBP302D	Control operations in acid plant	40
RIIPEO201D	Conduct conveyor operations	40
RIIPEO202D	Provide deck support for conveyor-car high wall mining operations	40
RIIPEO203D	Conduct stacker operations	30
RIIPEO204D	Conduct shore side mooring operations	30
RIIPEO205D	Conduct ship loading operations	30
RIIPEO206D	Lay and recover cables and hoses	20
RIIPEO207D	Coordinate conveyor system shift	20
RIIPEO208D	Extend, retract and maintain conveyor componentry	20
RIIPEO301D	Conduct conveyor-car high wall mining operations	40
RIIPEO302D	Operate and monitor ore car dumpers	40
RIIPGP201D	Conduct pump operations	20
RIIPGP202D	Handle reagents	30
RIIPGP203D	Operate compressors	20
RIIPGP204D	Carry out bore-field operations	20
RIIPGP205D	Handle, store and use cyanide	30
RIIPGP301D	Conduct drying activities	30
RIIPGP302D	Monitor and operate auxiliary plant and equipment	40
RIIPHA201D	Operate raw material feed systems	20
RIIPHA301D	Conduct milling/grinding	40
RIIPHA302D	Operate and monitor filter processes	30
RIIPHA303D	Operate agglomeration circuit	40

RIIPRE201D	Conduct solvent extraction	40
RIIPRE202D	Prepare and carry out electrolytic cleaning process	25
RIIPRE203D	Prepare for sintering activities	15
RIIPRE204D	Sinter materials	15
RIIPRE301D	Conduct electrowinning/electro-refining operations	40
RIIPRE302D	Conduct elution processes	40
RIIPRE303D	Conduct gold room operations	40
RIIPRE304D	Monitor casting quality	50
RIIPRM501D	Implement, monitor, rectify and report on contracts	80
RIIPRO201D	Conduct crushing operations	40
RIIPRO202D	Conduct screening and conveying operations	25
RIIPRO203D	Operate programmable logic control systems	25
RIIPRO204D	Bulk package and store product	20
RIIPRO205D	Conduct blending plant operations	25
RIIPRO301D	Conduct crushing and screening plant operations	60
RIIPRO302D	Perform process control room operations	60
RIIPRO303D	Conduct sand wash plant operations	35
RIIPRO401D	Supervise processing operations	60
RIIPRO402D	Supervise recycled materials operations	20
RIIPRO501D	Implement site processing plant operations	30
RIIPRO502D	Develop, implement and maintain process control systems	60
RIIPRO601D	Design processing plant	60
RIIPSM201D	Tap furnaces	50
RIIPSM202D	Prepare for pelletising activities	15
RIIPSM203D	Produce pellets	15
RIIPSM301D	Cast a blast furnace	35
RIIPSM302D	Cast ingots	20
RIIPSM303D	Operate a blast furnace	50

RIIPSM304D	Operate furnaces	40
RIIPSM305D	Operate converters	50
RIIPSM306D	Supply molten metal and additives to furnaces	50
RIIPSM307D	Control molten metal in holding furnace/vessel	50
RIIPSM308D	Monitor and maintain furnace gas efficiency	35
RIIPSM309D	Monitor and maintain flue gas efficiency	35
RIIQUA201D	Maintain and monitor site quality standards	40
RIIQUA401D	Apply a quality management system on site	30
RIIQUA501D	Implement, monitor and develop quality management plans	40
RIIQUA601D	Establish and maintain a quality system	65
RIIRAI401D	Apply and monitor mine services and infrastructure systems	60
RIIRAI402D	Apply and monitor site plant and resource management plan	80
RIIRAI501D	Implement mine transport systems and production equipment	60
RIIRAI502D	Develop and implement site plant and resource management plan	80
RIIRAI503D	Implement site services and infrastructure systems	80
RIIRAI504D	Select and install surface plant and equipment	80
RIIRAI505D	Implement the surface mine mechanical plant management plan	100
RIIRAI506D	Implement, monitor, rectify and report on inventory control system	80
RIIRAI507D	Implement the underground coal mine mechanical plant management plan	80
RIIRAI508D	Implement mine services systems	80
RIIRAI509D	Implement mine fixed plant and infrastructure systems	80
RIIRAI510D	Implement, monitor, rectify and report on interfaces between electrical and mechanical componentry	80
RIIRAI601D	Establish and maintain the site infrastructure and fixed plant systems	120
RIIRAI602D	Establish and maintain mine mechanical plant, services and infrastructure systems	120
RIIRAI603D	Establish and maintain mine transport systems and production equipment	80
RIIRAI604D	Establish and maintain mine services and infrastructure systems	80
RIIRAI605D	Establish and maintain an underground mine mechanical plant management system	100
RIIRAI606D	Establish and maintain mine closure management systems	60

RIIRAI607D	Establish quarry operations	80
RIIRAI608D	Establish quarry development	60
RIIRAI609D	Establish and maintain electrical installations, reticulation and protection system	120
RIIRAI610D	Establish & maintain mechanical standard/engineering practices for transport/ production equipment	120
RIIRAI611D	Establish and maintain a surface mine mechanical plant management system	100
RIIRAI612D	Establish and maintain underground product haulage and transport systems	80
RIIRIS201D	Conduct local risk control	20
RIIRIS202D	Respond to site based spills	30
RIIRIS301D	Apply risk management processes	30
RIIRIS401D	Apply site risk management system	40
RIIRIS402D	Carry out the risk management process	80
RIIRIS403D	Manage and coordinate spill response	50
RIIRIS501D	Implement and maintain management systems to control risk	80
RIIRIS601D	Establish and maintain the risk management system	70
RIIRTM201D	Position, set-up and operate a variable message sign	20
RIIRTM202D	Position, set-up and operate portable traffic signals	20
RIIRTM203D	Work as a safety observer/spotter	20
RIIRTM301D	Operate a truck or trailer mounted attenuator	20
RIISAM201D	Handle resources and infrastructure materials and safely dispose of nontoxic materials	16
RIISAM202D	Isolate and access plant	20
RIISAM203D	Use hand and power tools	60
RIISAM204D	Operate small plant and equipment	30
RIISAM205D	Cut, weld and bend materials	50
RIISAM207D	Apply operational maintenance skills	50
RIISAM208D	Perform plant operational maintenance	50
RIISAM209D	Carry out operational maintenance	50
RIISAM210D	Remove and fit wheel assemblies	20
RIISAM211D	Remove, repair and refit tyres and tubes	36

RIISAM212D	Service mine plant and equipment	40
RIISAM213D	Position and set up mobile lighting	10
RIISAM214D	Provide support to electrical tradesperson	40
RIISAM215D	Carry out drilling industry operational maintenance	40
RIISAM301E	Test operational functions of vehicles and equipment	30
RIISAM302D	Service and handover plant and machines	40
RIISAM303D	Shutdown dredge for operator maintenance	40
RIISAM304D	Install, commission and maintain major conveyor equipment and systems	80
RIISAM305D	Repair and splice conveyor belting	40
RIISAM306D	Service and maintain conveyors, feeders and hoppers	30
RIISAM307D	Service and maintain crushers	30
RIISAM308D	Service and maintain screens	30
RIISAM309D	Service and maintain pumps	30
RIISAM310D	Install and commission plant, machinery and services	60
RIISAM311D	Maintain winder equipment	40
RIISAM312D	Inspect and maintain shafts and structures	40
RIISAM313D	Monitor, inspect and service ropes and attachments	40
RIISAM314D	Manage oil and gas drilling equipment maintenance	30
RIISAM401D	Apply site plant, equipment and infrastructure maintenance management plan	80
RIISAM402D	Supervise operation of electrical equipment and installations	40
RIISAM403D	Commission/recommission plant	60
RIISAM501D	Implement and maintain the site plant, equipment and infrastructure maintenance plan	80
RIISAM502D	Manage general drilling equipment maintenance	40
RIISAM601D	Establish and maintain plant, equipment and infrastructure maintenance system	90
RIISAM602D	Establish and maintain maintenance management system for mechanical plant and equipment	120
RIISDM501D	Conduct mine surveying operations	50
RIISRM301D	Blend stockpile materials	20
RIISRM302D	Conduct stockpile reclaiming operations	40

RIISRM303D	Move and position materials to form stockpiles	20
RIISRM304D	Maintain stockpiles	20
RIISRM401D	Apply and monitor the site stockpile management plan	15
RIISRM501D	Implement the stockpile management plan	60
RIISRM502D	Design stockpile formations and reclaiming systems	40
RIISRM601D	Establish and maintain the stockpile management system	90
RIISTD201D	Read and interpret maps	20
RIISTD202D	Collect routine site samples	80
RIISTD301D	Take environmental samples and measurements	80
RIISTD302D	Process data and maintain accurate records	80
RIIUMM201D	Install ground support	60
RIIUMM202D	Install and maintain vent	30
RIIUMM203D	Prepare and perform manual scaling operations	20
RIIUMM301D	Conduct wet filling activities	20
RIIUMM302D	Install sets	60
RIIUMM303D	Conduct hand held mining	70
RIIUMM304D	Construct and maintain underground roads	40
RIIUMM305D	Install and remove a secondary fan	20
RIIUMM306D	Conduct mechanical scaling	30
RIIUMM307D	Maintain underground stockpiles	20
RIIUND201D	Install, maintain and recover reticulation systems	20
RIIUND202D	Operate from elevated work platform underground	40
RIIUND204D	Refuel vehicles/machines underground	20
RIIUND205D	Respond to a workforce incident	40
RIIUND206D	Install hand held underground ground support	20
RIIUND207D	Conduct underground lifting operations	40
RIIUND208D	Conduct skip operations	20
RIIUND209D	Operate automated winder	20

RIIUND301D	Operate manual winder	40
RIIUND302D	Conduct cage operations	40
RIIUND303D	Operate winder for shaft sinking	40
RIIUND304D	Recover equipment	60
RIIUND305D	Recover underground equipment	35
RIIUND306D	Conduct line of sight remote operations	30
RIIUND307D	Conduct tele-remote operations	30
RIIUND308D	Conduct control room operations	40
RIIUND309D	Conduct mechanical underground ground support drilling and installation	40
RIIUND310D	Apply shot-crete underground	60
RIIUND401D	Apply and monitor the ventilation management plan	80
RIIUND501D	Implement the ventilation management plan	80
RIIUND601D	Establish and maintain the ventilation management system	80
RIIUND602D	Establish and maintain mine services systems	120
RIIUND603D	Manage, operate and maintain the mine ventilation system	60
RIIVEH201D	Operate light vehicle	40
RIIVEH202E	Operate a medium vehicle	40
RIIVEH203D	Operate light vehicle underground	40
RIIVEH301D	Conduct rail haulage operations	40
RIIVEH302D	Operate multi-combination vehicle	40
RIIVEH303E	Drive heavy combination vehicle	40
RIIVEH304D	Conduct tip truck operations	52
RIIVEH305E	Operate and maintain a four wheel drive vehicle	30
RIIVEH306D	Operate mine service vehicle	40
RIIVEH307E	Operate heavy rigid vehicle	40
RIIWBP201D	Treat and dispose of rejects and tailings	60
RIIWBP202D	Distribute tailings	20
RIIWBP203D	Monitor tailings dam environment	20

RIIWBP401D	Apply and monitor site waste and by-products management plan	80
RIIWBP501D	Implement site waste and by-product management plan	80
RIIWBP502D	Plan and monitor recycled material operations	40
RIIWBP601D	Establish and maintain waste and by-product management system	90
RIIWHS201D	Work safely and follow WHS policies and procedures	30
RIIWHS202D	Enter and work in confined spaces	24
RIIWHS203D	Maintain amenities	20
RIIWHS204D	Work safely at heights	16
RIIWHS205D	Control traffic with stop-slow bat	4
RIIWHS301D	Conduct safety and health investigations	40
RIIWHS302D	Implement traffic management plan	16
RIIWHS401D	Supervise work in confined spaces	30
RIIWHS402D	Examine and maintain mine safety	50
RIIWHS403D	Apply the mine work health and safety management plan	80
RIIWHS404D	Implement and monitor health and hygiene management systems	50
RIIWHS405D	Maintain standard procedures and safe working practices	20
RIIWHS601D	Establish and maintain the WHS management system	70
RIIWHS602D	Incorporate health and hygiene factors into mine management	60
RIIWMG201D	Conduct dewatering activities in surface operations	40
RIIWMG202D	Conduct dewatering operations in underground mining operations	40
RIIWMG203D	Drain and dewater civil construction site	12
RIIWMG301D	Control construction site water table	20
RIIWMG302D	Reclaim and treat water	20
RIIWMG401D	Apply and monitor the site water management plan	80
RIIWMG402D	Monitor and coordinate waste and process water treatment	35
RIIWMG501D	Implement the site water management plan	80
RIIWMG601D	Establish and maintain water management system	90
RIIWSV201E	Perform well servicing rig floor operations	45

RIISV202E	Carry out well servicing rig lease operations	30
RIISV203D	Prepare equipment for well servicing air operations	30
RIISV301E	Conduct and maintain well servicing derrick operation	45
RIISV302D	Well servicing trip production tubing / work string	30
RIISV303D	Operate fluid systems	40
RIISV304D	Prepare well servicing fishing operations	40
RIISV401D	Rig up and rig down for well servicing	30
RIISV402D	Conduct well servicing milling operations	30
RIISV403D	Participate in well servicing nipple-up and pressure test	30
RIISV404D	Conduct fishing operations	30
RIISV501D	Manage well servicing induction and orientation	50
RIISV502D	Manage well completion and rig release	50
RIISV503D	Manage and monitor rig-up operations	40

Mapping Qualifications

The following table provides an overview of the qualifications from Version 2.00 which replace qualifications from the existing version of the RII09 Resources and Infrastructure Industry Training Package.

RII09 Current Qualification				RII Replacement Qualification		
National Code	National Title	Nominal Hours	E / NE	National Code	National Title	Nominal Hours
RII10113	Certificate I in Resources and Infrastructure Operations	180	E	RII10115	Certificate I in Resources and Infrastructure Operations	180
RII20113	Certificate II in Resources and Infrastructure Work Preparation	260	E	RII20115	Certificate II in Resources and Infrastructure Work Preparation	260
RII20213	Certificate II in Surface Extraction Operations	300	E	RII20215	Certificate II in Surface Extraction Operations	220
RII20313	Certificate II in Underground Coal Mining	320	E	RII20315	Certificate II in Underground Coal Mining	320
RII20413	Certificate II in Underground Metalliferous Mining	260	E	RII20415	Certificate II in Underground Metalliferous Mining	260
RII20513	Certificate II in Resource Processing	380	E	RII20515	Certificate II in Resource Processing	260
RII20613	Certificate II in Mining / Field Exploration	720	E	RII20615	Certificate II in Mining / Field Exploration	590
RII20713	Certificate II in Civil Construction	388	E	RII20715	Certificate II in Civil Construction	388
RII20813	Certificate II in Bituminous Surfacing	376	E	RII20815	Certificate II in Bituminous Surfacing	376
RII20913	Certificate II in Drilling Operations	406	E	RII20915	Certificate II in Drilling Operations	391
RII21013	Certificate II in Drilling Oil/Gas (Offshore)	380	E	RII21015	Certificate II in Drilling Oil/Gas (Offshore)	380
RII21113	Certificate II in Drilling Oil/Gas (On shore)	375	E	RII21115	Certificate II in Drilling Oil/Gas (On shore)	375
RII21213	Certificate II in Well Servicing Operations	325	NE	RII21215	Certificate II in Well Servicing Operations	295
	No previous equivalent		-	RII21315	Certificate II in Cross Industry Operations	310
RII30113	Certificate III in Surface Extraction Operations	490	E	RII30115	Certificate III in Surface Extraction Operations	455
RII30213	Certificate III in Underground Coal Operations	646	E	RII30215	Certificate III in Underground Coal Operations	646
RII30313	Certificate III in Underground Metalliferous Mining	485	E	RII30315	Certificate III in Underground Metalliferous Mining	485
RII30413	Certificate III in Resource Processing	460	E	RII30415	Certificate III in Resource Processing	415
RII30513	Certificate III in Mining Exploration	915	E	RII30515	Certificate III in Mining Exploration	720
RII30613	Certificate III in Small Mining Operations	800	E	RII30615	Certificate III in Small Mining Operations	800
RII30713	Certificate III in Mine Emergency Response and Rescue	540	E	RII30715	Certificate III in Mine Emergency Response and Rescue	540

RII30813	Certificate III in Civil Construction Plant Operations	644	E	RII30815	Certificate III in Civil Construction Plant Operations	636
RII30913	Certificate III in Civil Construction	721	NE	RII30915	Certificate III in Civil Construction	696
RII31213	Certificate III in Civil Foundations	616	E	RII31215	Certificate III in Civil Foundations	616
RII31613	Certificate III in Trenchless Technology	750	E	RII31615	Certificate III in Trenchless Technology	750
RII31813	Certificate III in Drilling Operations	470	E	RII31815	Certificate III in Drilling Operations	495
RII31913	Certificate III in Drilling Oil & Gas (Off shore)	440	E	RII31915	Certificate III in Drilling Oil & Gas (Off shore)	440
RII32013	Certificate III in Drilling Oil/Gas (On shore)	360	NE	RII32015	Certificate III in Drilling Oil/Gas (On shore)	349
RII32213	Certificate III in Well Servicing Operations	400	NE	RII32215	Certificate III in Well Servicing Operations	394
RII40113	Certificate IV in Surface Extraction Operations	550	E	RII40115	Certificate IV in Surface Extraction Operations	550
RII40213	Certificate IV in Surface Coal Mining (Open Cut Examiner)	850	E	RII40215	Certificate IV in Surface Coal Mining (Open Cut Examiner)	850
RII40313	Certificate IV in Metalliferous Mining Operations (Underground)	760	E	RII40315	Certificate IV in Metalliferous Mining Operations (Underground)	760
RII40413	Certificate IV in Underground Coal Operations	850	E	RII40415	Certificate IV in Underground Coal Operations	850
RII40513	Certificate IV in Resource Processing	650	E	RII40515	Certificate IV in Resource Processing	650
RII40613	Certificate IV in Civil Construction Operations	610	E	RII40615	Certificate IV in Civil Construction Operations	610
RII40713	Certificate IV in Civil Construction Supervision	540	E	RII40715	Certificate IV in Civil Construction Supervision	540
RII40813	Certificate IV in Civil Construction Design	594	E	RII40815	Certificate IV in Civil Construction Design	594
RII40913	Certificate IV in Drilling Operations	445	NE	RII40915	Certificate IV in Drilling Operations	440
RII41013	Certificate IV in Drilling Oil & Gas (Off shore)	500	E	RII41015	Certificate IV in Drilling Oil & Gas (Off shore)	500
RII41113	Certificate IV in Drilling Oil & Gas (On shore)	320	E	RII41115	Certificate IV in Drilling Oil & Gas (On shore)	320
RII41213	Certificate IV in Well Servicing Operations	455	NE	RII41215	Certificate IV in Well Servicing Operations	430
RII50113	Diploma of Surface Operations Management	920	E	RII50115	Diploma of Surface Operations Management	920
RII50213	Diploma of Underground Metalliferous Mining Management	850	E	RII50215	Diploma of Underground Metalliferous Mining Management	850
RII50313	Diploma of Minerals Processing	920	E	RII50315	Diploma of Minerals Processing	920
RII50413	Diploma of Civil Construction Management	710	E	RII50415	Diploma of Civil Construction Management	710
RII50513	Diploma of Civil Construction Design	1004	E	RII50515	Diploma of Civil Construction Design	1004
RII50613	Diploma of Drilling Operations	650	E	RII50615	Diploma of Drilling Operations	650

RII50713	Diploma of Drilling Oil & Gas (Off shore)	890	E	RII50715	Diploma of Drilling Oil & Gas (Off shore)	890
RII50813	Diploma of Drilling Oil & Gas (On shore)	480	E	RII50815	Diploma of Drilling Oil & Gas (On shore)	480
RII50913	Diploma of Underground Coal Mining Management	760	E	RII50915	Diploma of Underground Coal Mining Management	760
RII51013	Diploma of Well Servicing Operations	675	E	RII51015	Diploma of Well Servicing Operations	675
RII60113	Advanced Diploma of Metalliferous Mining	1150	E	RII60115	Advanced Diploma of Metalliferous Mining	1150
RII60213	Advanced Diploma of Extractive Industries Management	1095	E	RII60215	Advanced Diploma of Extractive Industries Management	1095
RII60313	Advanced Diploma of Underground Coal Mining Management	890	E	RII60315	Advanced Diploma of Underground Coal Mining Management	890
RII60413	Advanced Diploma of Drilling Management	640	E	RII60415	Advanced Diploma of Drilling Management	640
RII60513	Advanced Diploma of Civil Construction Design	795	E	RII60515	Advanced Diploma of Civil Construction Design	795
RII60613	Advanced Diploma of Civil Construction	875	E	RII60615	Advanced Diploma of Civil Construction	875
RII60713	Advanced Diploma of Surface Coal Mining Management	1115	E	RII60715	Advanced Diploma of Surface Coal Mining Management	1115

Mapping Units of Competency

The following table provides an overview of the units of competency from Version 2.00 which replace units of competency from the existing version of the RII09 Resources and Infrastructure Industry Training Package.

RII Current Unit				RII Replacement Unit		
National Code	National Title	Nominal Hours	E / NE	National Code	National Title	Nominal Hours
RIIBLA202D	Support underground shotfiring operations	80	E	RIIBLA202E	Support underground shotfiring operations	80
	No previous equivalent		-	RIIBLA308D	Conduct electronic blasting operations	45
RIIBLA601D	Design surface blasts	60	E	RIIBLA601E	Design blasts	60
RIICCM205D	Carry out manual excavation	8	E	RIICCM205E	Carry out manual excavation	8
RIICRM201D	Escort mobile road marking operations	20	E	RIICRM201E	Escort mobile works	20
RIIERR202D	Contribute to the control of emergencies and critical situations	25	NE	RIIERR202E	Contribute to the control of emergencies and critical situations	25
RIIHAN308D	Load and unload plant	16	E	RIIHAN308E	Load and unload plant	16
RIIHAN309D	Conduct telescopic materials handler operations	80	E	RIIHAN309E	Conduct telescopic materials handler operations	80
RIIHAN311D	Conduct operations with integrated tool carrier	68	E	RIIHAN311E	Conduct operations with integrated tool carrier	68
	No previous equivalent		-	RIILAT402D	Provide leadership in the supervision of diverse work teams	45
RIIMCU212D	Construct and maintain basic ventilation devices	20	NE	RIIMCU212E	Construct and maintain basic ventilation devices	20
RIIMCU302D	Construct and maintain ventilation devices	40	NE	RIIMCU302E	Construct and maintain ventilation devices	35
RIIMCU404D	Apply and monitor the gas drainage management plan	60	E	RIIMCU404E	Apply and monitor the gas drainage management plan	60
RIIMPO208D	Operate support equipment	50	E	RIIMPO208E	Operate support equipment	50
RIIMPO305D	Conduct coal stockpile dozer operations	40	NE	RIIMPO305E	Conduct coal stockpile dozer operations	35
RIIMPO308D	Conduct tracked dozer operations	60	E	RIIMPO308E	Conduct tracked dozer operations	60
RIIMPO309D	Conduct wheeled dozer operations	40	E	RIIMPO309E	Conduct wheeled dozer operations	40
RIIMPO310D	Conduct grader operations	60	E	RIIMPO310E	Conduct grader operations	60
RIIMPO317D	Conduct roller operations	68	NE	RIIMPO317E	Conduct roller operations	20
RIIMPO318D	Conduct civil construction skid steer loader operations	68	E	RIIMPO318E	Conduct civil construction skid steer loader operations	68

RIIMPO320D	Conduct civil construction excavator operations	160	E	RIIMPO320E	Conduct civil construction excavator operations	160
RIIMPO321D	Conduct civil construction wheeled front end loader operations	128	NE	RIIMPO321E	Conduct civil construction wheeled front end loader operations	40
RIIMPO324D	Conduct civil construction grader operations	192	E	RIIMPO324E	Conduct civil construction grader operations	192
RIINHB205D	Assist continuous flight auger drilling	30	NE	RIINHB205E	Assist continuous flight auger drilling	35
RIINHB206D	Assist large diameter auger drilling	20	NE	RIINHB206E	Assist large diameter auger drilling	35
RIINHB305D	Conduct continuous flight auger drilling	60	NE	RIINHB305E	Conduct continuous flight auger drilling	60
RIINHB306D	Conduct large diameter auger drilling	60	E	RIINHB306E	Conduct large diameter auger drilling	60
RIINHB309D	Conduct guided boring	60	E	RIINHB309E	Conduct guided boring	60
RIINHB405D	Supervise water well drilling operations	45	E	RIINHB405E	Supervise water well drilling operations	45
RIINHB501D	Plan drilling	40	E	RIINHB501E	Plan drilling	40
RIIOGD203D	Prepare and operate drilling fluid systems	25	NE	RIIOGD203E	Prepare and operate drilling fluid systems	25
RIIOGD204D	Perform rig floor operations	40	NE	RIIOGD204E	Perform rig floor operations	45
RIIOGD209D	Operate and maintain ancillary equipment	40	E	RIIOGD209E	Operate and maintain ancillary equipment	40
RIIOGD301D	Conduct and maintain derrick operations	50	NE	RIIOGD301E	Conduct and maintain derrick operations	45
RIIOGD302D	Trip casing	20	E	RIIOGD302E	Trip casing	20
RIIOGD303D	Trip pipe	20	NE	RIIOGD303E	Trip pipe	25
RIIOGD501D	Manage rig operations	40	E	RIIOGD501E	Manage rig operations	40
RIIOGN201D	Carry out rig lease operations	30	E	RIIOGN201E	Carry out rig lease operations	30
RIIOGN302D	Operate mud pumps	20	E	RIIOGN302E	Operate mud pumps	20
	No previous equivalent		-	RIIRTM201D	Position, set-up and operate a variable message sign	20
	No previous equivalent		-	RIIRTM202D	Position, set-up and operate portable traffic signals	20
	No previous equivalent		-	RIIRTM203D	Work as a safety observer/spotter	20
	No previous equivalent		-	RIIRTM301D	Operate a truck or trailer mounted attenuator	20
RIISAM301D	Test operational functions of vehicles and equipment	30	E	RIISAM301E	Test operational functions of vehicles and equipment	30
RIIVEH202D	Operate a medium vehicle	40	E	RIIVEH202E	Operate a medium vehicle	40
RIIVEH303D	Drive heavy combination vehicle	40	E	RIIVEH303E	Drive heavy combination vehicle	40
RIIVEH305D	Operate and maintain a four wheel drive vehicle	40	NE	RIIVEH305E	Operate and maintain a four wheel drive vehicle	30

RIIV307D	Operate heavy rigid vehicle	40	E	RIIV307E	Operate heavy rigid vehicle	40
RIISV201D	Perform well servicing rig floor operations	50	NE	RIISV201E	Perform well servicing rig floor operations	45
RIISV202D	Carry out well servicing rig lease operations	30	E	RIISV202E	Carry out well servicing rig lease operations	30
RIISV301D	Conduct and maintain well servicing derrick operation	50	NE	RIISV301E	Conduct and maintain well servicing derrick operation	45

Traineeships

The following table provides a summary of the qualifications in the RII Resources and Infrastructure Industry Training Package and the accredited traineeship courses they will replace.

National Code	National Title	Traineeship	Nominal Hours	E / NE	National Code	National Title	Nominal Hours
RII10113	Certificate I in Resources and Infrastructure Operations	TR07000: CIVIL CONSTRUCTION FOR ENTRY LEVEL INDIGENOUS WORKERS (LEVEL 1)	180	E	RII10115	Certificate I in Resources and Infrastructure Operations	180
RII20213	Certificate II in Surface Extraction Operations	TR09560: SURFACE EXTRACTION OPERATIONS (LEVEL 2)	300	E	RII20215	Certificate II in Surface Extraction Operations	220
		TR11020: EXTRACTIVE INDUSTRIES (OPERATIONS) (LEVEL 2)					
RII20413	Certificate II in Underground Metalliferous Mining	TR09570: UNDERGROUND METALLIFEROUS MINING (LEVEL 2)	260	E	RII20415	Certificate II in Underground Metalliferous Mining	260
RII20513	Certificate II in Resource Processing	TR09580: METALLIFEROUS MINING OPERATIONS (PROCESSING) (LEVEL 2)	380	E	RII20515	Certificate II in Resource Processing	260
RII20613	Certificate II in Mining / Field Exploration	TR09170: FIELD / EXPLORATION OPERATIONS (LEVEL 2)	720	E	RII20615	Certificate II in Mining / Field Exploration	590
RII20713	Certificate II in Civil Construction	TR00600: CIVIL CONSTRUCTION (LEVEL 2)	388	E	RII20715	Certificate II in Civil Construction	388
RII20813	Certificate II in Bituminous Surfacing	TR06320: BITUMINOUS SURFACING (LEVEL 2)	376	E	RII20815	Certificate II in Bituminous Surfacing	376
RII20913	Certificate II in Drilling Operations	TR09590: DRILLING OPERATIONS (LEVEL 2)	406	E	RII20915	Certificate II in Drilling Operations	391
RII30113	Certificate III in Surface Extraction Operations	TR09710: SURFACE EXTRACTION OPERATIONS (LEVEL 3)	490	E	RII30115	Certificate III in Surface Extraction Operations	455
		TR11030: EXTRACTIVE INDUSTRIES (OPERATOR) (LEVEL 3)					
RII30313	Certificate III in Underground Metalliferous Mining	TR09720: UNDERGROUND METALLIFEROUS MINING (LEVEL 3)	485	E	RII30315	Certificate III in Underground Metalliferous Mining	485
RII30413	Certificate III in Resource Processing	TR09730: RESOURCE PROCESSING (LEVEL 3)	460	E	RII30415	Certificate III in Resource Processing	415
RII30813	Certificate III in Civil Construction Plant Operations	TR05590: PLANT OPERATIONS (LEVEL 3)	644	E	RII30815	Certificate III in Civil Construction Plant Operations	636

RII30913	Certificate III in Civil Construction	TR03090: ROAD CONSTRUCTION AND MAINTENANCE (LEVEL 3)	721	NE	RII30915	Certificate III in Civil Construction	696
		TR03110: PIPELAYING (LEVEL 3)					
		TR04450: TUNNEL CONSTRUCTION (LEVEL 3)					
		TR05570: BRIDGE CONSTRUCTION AND MAINTENANCE (LEVEL 3)					
		TR05920: CIVIL CONSTRUCTION (LEVEL 3)					
		TR07680: BITUMINOUS SURFACING (LEVEL 3)					
		TR09380: ROAD MARKING (LEVEL 3)					
RII31213	Certificate III in Civil Foundations	TR09640: CIVIL FOUNDATIONS (LEVEL 3)	616	E	RII31215	Certificate III in Civil Foundations	616
RII31613	Certificate III in Trenchless Technology	TRO5930: TRENCHLESS TECHNOLOGY (LEVEL 3)	750	E	RII31615	Certificate III in Trenchless Technology	750
RII31813	Certificate III in Drilling Operations	TR08010: DRILLER (LEVEL 3)	470	E	RII31815	Certificate III in Drilling Operations	495
RII40113	Certificate IV in Surface Extraction Operations	TR09630: SURFACE EXTRACTION OPERATIONS (LEVEL 4)	550	E	RII40115	Certificate IV in Surface Extraction Operations	550
RII40313	Certificate IV in Metalliferous Mining Operations (Underground)	TR04040: METALLIFEROUS MINING OPERATIONS (UNDERGROUND) (LEVEL 4)	760	E	RII40315	Certificate IV in Metalliferous Mining Operations (Underground)	760
RII40513	Certificate IV in Resource Processing	TR09650: RESOURCE PROCESSING (LEVEL 4)	650	E	RII40515	Certificate IV in Resource Processing	650
RII40713	Certificate IV in Civil Construction Supervision	TR10690: CIVIL CONSTRUCTION SUPERVISOR (LEVEL 4)	540	E	RII40715	Certificate IV in Civil Construction Supervision	540
RII40813	Certificate IV in Civil Construction Design	TR09180: CIVIL CONSTRUCTION DESIGNER (LEVEL 4)	594	E	RII40815	Certificate IV in Civil Construction Design	594
RII40913	Certificate IV in Drilling Operations	TR10700: DRILLING OPERATIONS (LEVEL 4)	445	NE	RII40915	Certificate IV in Drilling Operations	440
RII50113	Diploma in Surface Operations Management	TR09680: SURFACE OPERATIONS MANAGER (LEVEL 5)	920	E	RII50115	Diploma in Surface Operations Management	920
RII50213	Diploma in Underground Metalliferous Mining Management	TR09690: OPEN CUT AND UNDERGROUND MINE ENGINEERING (LEVEL 5)	850	E	RII50215	Diploma in Underground Metalliferous Mining Management	850
RII50313	Diploma in Minerals Processing	TR09700: MINERALS PROCESSING (LEVEL 5)	920	E	RII50315	Diploma in Minerals Processing	920

RII50413	Diploma in Civil Construction Management	TR07020: CIVIL CONSTRUCTION MANAGER (LEVEL 5)	710	E	RII50415	Diploma in Civil Construction Management	710
RII50513	Diploma in Civil Construction Design	TR09190: CIVIL CONSTRUCTION DESIGNER (LEVEL 5)	1004	E	RII50515	Diploma in Civil Construction Design	1004
RII60213	Advanced Diploma in Extractive Industries Management	TR07140: EXTRACTIVE INDUSTRIES SENIOR MANAGER (LEVEL 6)	1095	E	RII60215	Advanced Diploma in Extractive Industries Management	1095
RII60513	Advanced Diploma in Civil Construction Design	TR07050: CIVIL CONSTRUCTION SENIOR DESIGNER (LEVEL 6)	795	E	RII60515	Advanced Diploma in Civil Construction Design	795
RII60613	Advanced Diploma in Civil Construction	TR07040: CIVIL CONSTRUCTION SENIOR MANAGER (LEVEL 6)	875	E	RII60615	Advanced Diploma in Civil Construction	875