

**Victorian Purchasing Guide
for
RII09 Resources and Infrastructure Industry
Training Package
Version No 3**

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Victorian Purchasing Guide — Version History

Training Package Version	Date VPG Approved	Comments
RII09 Resources and Infrastructure Training Package 3	05/07/2012	7 qualification removed (merged) 1 qualification altered to merge 8 streams 24 new units of competency 33 updated imported units of competency
RII09 Resources and Infrastructure Training Package 2	15/12/2011	12 revised qualifications 7 new units of competency 2 new imported units of competency
RII09 Resources and Infrastructure Training Package 1	20/05/2010	Minor changes
RII09 Resources and Infrastructure Training Package 1	19/04/2010	Initial release reflects the rationalisation and consolidation of the following training packages: <ul style="list-style-type: none"> • RII06 Civil Construction, • MNQ03 Extractive Industries, • MNM05 Metalliferous Mining, • DRT03 Drilling, • MNC04 Coal • BCC03 Civil Construction

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INTRODUCTION

What is a Victorian Purchasing Guide?

The Victorian Purchasing Guide provides information for use by Registered Training Organisations (RTOs) in the provision of Victorian government subsidised training.

Specifically the Victorian Purchasing Guide provides the following information related to the delivery of nationally endorsed Training Packages in Victoria:

- The nominal hour range (minimum-maximum) available for each qualification.
- Nominal hours for each unit of competency within the Training Package.
- Sample Training Programs

Registration

RTOs must be registered by either the Victorian Registration and Qualifications Authority (VRQA) or the Australian Skills Qualification Authority (ASQA) regulatory body to be eligible to issue qualifications and statements of attainment under the Australian Quality Framework (AQF).

The VRQA is the regulatory authority for Victoria that registers VET training organisations who provide courses to domestic students only and who only offer training in Victoria.

To register to provide training to international students and in other Australian states and territories you will need to apply with ASQA.

QUALIFICATIONS

Code	Title	Qualification Nominal Hour Range	
		Minimum	Maximum
RII10109	Certificate I in Resources and Infrastructure Operations	114	240
RII20109	Certificate II in Resources and Infrastructure Work Preparation	164	572
RII20209	Certificate II in Surface Extraction Operations	158	380
RII20309	Certificate II in Underground Coal Mining	220	425
RII20409	Certificate II in Underground Metalliferous Mining	179	440
RII20509	Certificate II in Resource Processing	168	390
RII20609	Certificate II in Mining Field/Exploration Operations	398	548
RII20712	Certificate II in Civil Construction	346	690
RII20809	Certificate II in Bituminous Surfacing	346	472
RII20909	Certificate II in Drilling Operations	353	435
RII21009	Certificate II in Drilling Oil/Gas (Off shore)	387	455
RII21109	Certificate II in Drilling Oil/Gas (On shore)	308	470
RII30112	Certificate III in Surface Extraction Operations	262	765
RII30212	Certificate III in Underground Coal Operations	480	930
RII30311	Certificate III in Underground Metalliferous Mining	308	765
RII30411	Certificate III in Resource Processing	265	702
RII30509	Certificate III in Mining Exploration	588	678
RII30611	Certificate III in Small Mining Operations	316	650
RII30709	Certificate III in Mine Emergency Response and Rescue	312	548
RII30809	Certificate III in Civil Construction Plant Operations	348	1362
RII30912	Certificate III in Civil Construction	454	1876
RII31209	Certificate III in Civil Foundations	572	924
RII31609	Certificate III in Trenchless Technology	702	1042
RII31809	Certificate III in Drilling Operations	443	605

RII31909	Certificate III in Drilling Oil/Gas (Off shore)	408	440
RII32009	Certificate III in Drilling Oil/Gas (On shore)	410	450
RII40109	Certificate IV in Surface Extraction Operations	423	886
RII40212	Certificate IV in Surface Coal Mining (Open Cut Examiner)	585	660
RII40311	Certificate IV in Metalliferous Mining Operations (Underground)	493	786
RII40412	Certificate IV in Underground Coal Operations	620	910
RII40509	Certificate IV in Resource Processing	443	636
RII40609	Certificate IV in Civil Construction Operations	385	990
RII40712	Certificate IV in Civil Construction Supervision	415	980
RII40809	Certificate IV in Civil Construction Design	465	950
RII40909	Certificate IV in Drilling Operations	380	585
RII41009	Certificate IV in Drilling Oil/Gas (Off shore)	380	585
RII41109	Certificate IV in Drilling Oil/Gas (On shore)	348	485
RII50109	Diploma of Surface Operation Management	610	1190
RII50209	Diploma of Underground Metalliferous Mining Management	660	950
RII50309	Diploma of Minerals Processing	900	1070
RII50409	Diploma of Civil Construction Management	820	1260
RII50509	Diploma of Civil Construction Design	875	1680
RII50609	Diploma of Drilling Operations	750	765
RII50709	Diploma of Drilling Oil/Gas (Off shore)	1100	1100
RII50809	Diploma of Drilling Oil/Gas (On shore)	610	780
RII50912	Diploma of Underground Coal Mining Management	620	800
RII60109	Advanced Diploma of Metalliferous Mining	1760	2000
RII60209	Advanced Diploma of Extractive Industries Management	1280	1710
RII60312	Advanced Diploma of Underground Coal Mining Management	890	1100

RII60409	Advanced Diploma of Drilling Management	745	800
RII60509	Advanced Diploma of Civil Construction Design	865	1250
RII60609	Advanced Diploma of Civil Construction	1045	1660
RII60709	Advanced Diploma of Surface Coal Mining	1260	1400

UNITS OF COMPETENCY AND NOMINAL HOURS

RTOs are advised that there is a mapping inside the Training Package that describes the relationship between new units and superseded or replaced units from the previous version of **RII09 Resources and Infrastructure Training Package**. Information regarding transition arrangements can be obtained from the state or national VET Regulating Authority (see Contacts and Links section).

You must be sure that all training and assessment leading to qualifications or Statements of Attainment from the **RII09 Resources and Infrastructure Training Package** is conducted against the Training Package units of competency and complies with the requirements in the assessment guidelines.

Listing of the Units of Competency and Nominal Hours

Unit Code	Unit Title	Nominal Hours
RIIBEF201B	Plan and organise work	20
RIIBEF202A	Identify and rectify site operating problems	40
RIIBEF301A	Run on-site operations	40
RIIBEF302A	Monitor site production activities	20
RIIBEF401A	Manage non-routine, complex technical situations	80
RIIBEF402A	Supervise on-site operations	50
RIIBEF601A	Conduct business negotiations	100
RIIBEF602A	Establish and evaluate operational performance management systems	120
RIIBEF603A	Manage decision making process	120
RIIBEF604A	Conduct feasibility study	100
RIIBEF605A	Resource site plans and objectives	120
RIIBHD301A	Conduct surface blast hole drilling operations	60
RIIBHD302A	Conduct underground development drilling	28
RIIBHD303A	Conduct long hole drilling	28
RIIBHD304B	Set up and prepare for open-cut drilling operations	40
RIIBHD305	Conduct down-hole hammer drilling	40
RIIBHD401A	Supervise blast hole drilling operations	40
RIIBHD501A	Manage blast hole drilling operations	50
RIIBLA201A	Support shotfiring operations	30
RIIBLA202B	Support underground shotfiring operations	20
RIIBLA203B	Conduct mobile mixing of explosives	30
RIIBLA204A	Store, handle and transport explosives in underground coal mines	30
RIIBLA205A	Store, handle and transport explosives	20
RIIBLA301A	Conduct surface shotfiring operations	50
RIIBLA302A	Conduct shotfiring operations in underground coal mines	60
RIIBLA303A	Conduct underground development shotfiring	50
RIIBLA304A	Conduct underground production shotfiring	50
RIIBLA305A	Conduct secondary blasting	35
RIIBLA306A	Conduct accretion firing	30
RIIBLA307A	Conduct blast survey	20
RIIBLA401A	Manage blasting operations	40
RIIBLA402A	Monitor and control the effects of blasting on the environment	40

Unit Code	Unit Title	Nominal Hours
RIIBLA601A	Design surface blasts	40
RIIBLA602A	Establish and maintain a blasting system	120
RIICAR301A	Rehabilitate exploration site	40
RIICAR302A	Rehabilitate small mine site	40
RIICAR401A	Supervise rehabilitation operations	40
RIICBM201A	Strip pile heads	20
RIICBM301A	Maintain concrete bridges	80
RIICBM302A	Install pre-cast girders	80
RIICBM303A	Install pre-cast parapets	80
RIICBM304A	Operate a bridge inspection unit	80
RIICBM305A	Install pre-cast concrete bridge decks	80
RIICBM306A	Undertake concreting work on concrete bridges	80
RIICBM307A	Construct formwork and false work on concrete bridges	120
RIICBS201A	Conduct tack coat spraying operations	20
RIICBS202A	Hand spread asphalt	18
RIICBS203A	Safely handle bituminous materials	18
RIICBS204A	Conduct aggregate spreader box operations	18
RIICBS205A	Roll aggregate in sprayed sealing operations	26
RIICBS206A	Conduct pavement sweeping operations	18
RIICBS207A	Take samples of materials used in road surfacing	10
RIICBS208A	Conduct road maintenance operations	36
RIICBS301A	Conduct profile planer operations	80
RIICBS302A	Conduct paver screeding operations	58
RIICBS303A	Conduct materials transfer vehicle operations	56
RIICBS304A	Compact asphalt with rollers	44
RIICBS305A	Conduct asphalt paver operations	52
RIICBS306A	Conduct slurry sealing operations	80
RIICBS307A	Conduct bitumen sprayer operations	100
RIICBS308A	Load aggregate using a purpose built loader	20
RIICBS309A	Conduct self-propelled aggregate spreader operations	30
RIICBS310A	Conduct patching operations	60
RIICBS311A	Produce asphalt products	100
RIICBS312A	Conduct bitumen tanker operations	64
RIICBS401B	Apply the principles for the asphalt paving and compaction	40
RIICBS402B	Apply the principles for the application of bituminous sprayed treatment	45
RIICBS403B	Apply the principles for the application of polymer modified binder	25
RIICBS404B	Apply the principles for the selection and use of bituminous emulsion	20
RIICBS405A	Apply the principles for the application of slurry surfacing	40
RIICBS406A	Apply the principles of pavement profiling using a profiler	30
RIICBS407A	Apply the principles for the manufacture and delivery of hot mix asphalt	40
RIICBS408A	Apply the principles for the manufacture of cold mix	40
RIICBS409A	Apply the principles for the manufacture of polymer modified binder	40

Unit Code	Unit Title	Nominal Hours
RIICBS410A	Apply the principles for the manufacture of bituminous emulsion	40
RIICBS411A	Apply the principles for the manufacture of slurry surfacing	40
RIICCM201A	Carry out measurements and calculations	20
RIICCM202A	Identify, locate and protect underground services	30
RIICCM203A	Read and interpret plans and specifications	40
RIICCM204A	Place and fix reinforcement materials	40
RIICCM205A	Carry out manual excavation	8
RIICCM206A	Support plant operations	8
RIICCM207A	Spread and compact materials manually	12
RIICCM208A	Carry out basic levelling	8
RIICCM209A	Carry out concrete work	40
RIICCM210A	Install trench support	16
RIICCM211A	Erect and dismantle temporary fencing and gates	40
RIICCM301A	Construct and dismantle fences and gates	40
RIICCR401A	Develop and maintain positive community relations	30
RIICCR501A	Conduct sales in construction materials operations	80
RIICCR601A	Manage customer relationships	60
RIICFW301A	Construct underpinning	60
RIICFW302A	Install temporary and permanent rock anchors	24
RIICFW303A	Install primary ground support	24
RIICFW304A	Conduct pile driving operations	40
RIICFW305A	Conduct cast in-situ pilings operations	40
RIICFW306A	Direct pile driving operations	40
RIICFW307A	Direct cast in-situ piling operations	40
RIICOM201A	Communicate in the workplace	20
RIICOM301B	Communicate information	20
RIICOM302A	Communicate workplace information	20
RIICPL301A	Install water mains pipelines	40
RIICPL302A	Install stormwater systems	40
RIICPL303A	Install sewer pipelines	40
RIICPL304A	Install pre-cast gully pits	40
RIICPL305A	Install pre-cast access chambers	40
RIICPL401A	Apply the principles for the installation of underground service using open excavation	60
RIICRC201A	Repair potholes	36
RIICRC202A	Install signs	16
RIICRC203A	Install sub-soil drainage	20
RIICRC204A	Install and maintain roadside fixtures	30
RIICRC205A	Install utility poles	40
RIICRC206A	Install pre-cast concrete crash barriers	40
RIICRC207A	Install noise barriers	40
RIICRC208A	Lay pipes	40

Unit Code	Unit Title	Nominal Hours
RIICRC209A	Lay reinforced concrete box culverts	40
RIICRC301A	Maintain drainage systems	16
RIICRC302A	Place and form concrete kerb, channel and fixtures	36
RIICRC303A	Lay pavers	24
RIICRC304A	Maintain sealed roads	32
RIICRC305A	Conduct road construction paver screeding operations	58
RIICRC306A	Conduct earthworks	80
RIICRC307A	Conduct road pavement construction	24
RIICRC308A	Conduct paver operations	80
RIICRC309A	Conduct stabiliser operations	80
RIICRC310A	Construct and maintain roads	60
RIICRC311	Conduct concrete road paver operations	60
RIICRC312	Setup and maintain concrete paver stringlines	40
RIICRC313	Conduct concrete road curing and texturing operations	24
RIICRC314	Handle concrete materials	24
RIICRC315	Use concreting materials and equipment	60
RIICRC316	Place and compact concrete	170
RIICRC317	Finish concrete pavements	40
RIICRC318	Cure concrete	16
RIICRC319	Saw and cut concrete pavements to initiate planned cracks	16
RIICRC320	Seal concrete pavements	12
RIICRC321	Use automated paving guidance systems	80
RIICRC322	Receive, check and record concrete deliveries	8
RIICRC323	Insert tie bars in fresh concrete	8
RIICRC401A	Apply the principles of flexible pavement construction	50
RIICRC402A	Apply the principles of rigid pavement construction	50
RIICRC403A	Apply the principles of the stabilisation of materials	50
RIICRC404A	Inspect and report on pavement condition	40
RIICRC405A	Carry out pavement condition measurement	50
RIICRC406B	Apply the principles of pavement maintenance	50
RIICRM201A	Escort mobile road marking operations	24
RIICRM202A	Handle and store road marking materials	8
RIICRM203A	Conduct pedestrian road marking operations	24
RIICRM204A	Prepare surface for road marking	16
RIICRM205A	Conduct road marking measuring operations	16
RIICRM206A	Conduct airless and atomised spraying operations	20
RIICRM207A	Install raised pavement markers	16
RIICRM301A	Conduct ride on road marking operations	16
RIICRM302A	Conduct long line road marking operations	40
RIICRM303A	Conduct thermo plastic road marking operations	30

Unit Code	Unit Title	Nominal Hours
RIICSG401A	Apply the principles of civil concrete structures construction	100
RIICSG402A	Apply the principles of civil steel structures construction	100
RIICSG403A	Apply the principles of civil timber structures construction	100
RIICSG404A	Apply the principles of civil masonry, crib and gabion structure construction	100
RIICSG405A	Carry out inspections of civil structures	100
RIICSG406A	Apply principles of maintenance of civil structures	100
RIICTB201A	Maintain timber bridges	64
RIICTB202A	Apply bridge durability treatment	40
RIICTB203A	Produce drawings and sketches	24
RIICTB301A	Undertake visual inspection	64
RIICTB302A	Install temporary support members	40
RIICTB303A	Erect a temporary modular support system (bailey) on an existing bridge	48
RIICTB304A	Install or replace sub-structure members	48
RIICTB305A	Install or replace super-structure members	48
RIICTB306A	Splice and connect timber members	40
RIICTB307A	Assemble a temporary modular bridge	48
RIICTB308A	Install or replace truss members	40
RIICTB309A	Construct, maintain and remove coffer dams	60
RIICTB310A	Construct specialised timber deck systems	64
RIICTC301A	Install tunnelling constructions services	80
RIICTC302A	Line tunnel	80
RIICTC303A	Excavate tunnel by machine	32
RIICTC304A	Muck out tunnel earthworks	16
RIICTC305A	Construct portals	24
RIICTC401A	Apply the principles of tunnel construction	100
RIICTT301A	Conduct fluid assisted directional boring	80
RIICTT302A	Conduct impact moling, ramming and augering	80
RIICTT303A	Control micro tunnelling and pipe-jacking	80
RIICTT304A	Undertake on-line replacement for existing pipeline systems	80
RIICTT305A	Undertake localised repair and sealing of existing pipeline systems	80
RIICTT306A	Install cure in-place linings for existing pipeline systems	80
RIICTT307A	Spray linings for existing pipeline systems	80
RIICTT308A	Install close-fit linings for existing pipeline systems	80
RIICTT309A	Install slip lining in existing pipeline systems	80
RIICTT310A	Renovate large diameter pipes and chambers	80
RIICTT401A	Apply the principles for the installation of underground services using trenchless technology	60
RIICTT402A	Apply the principles for the repair and rehabilitation of underground services using trenchless technology	60
RIICWD501A	Prepare detailed design of foundations	100
RIICWD502A	Prepare detailed design of lighting	100
RIICWD503A	Prepare work zone traffic management plan	50

Unit Code	Unit Title	Nominal Hours
RIICWD504A	Prepare detailed design of environmental controls	100
RIICWD505A	Prepare detailed design of landscaping	100
RIICWD506A	Prepare detailed design of canals	100
RIICWD507A	Prepare detailed geotechnical design	100
RIICWD508A	Prepare detailed design of rural roads	100
RIICWD509A	Prepare detailed design of urban roads	100
RIICWD510A	Prepare detailed design of busways	100
RIICWD511A	Prepare detailed design of sub-divisions	100
RIICWD512A	Prepare detailed design of motorways and interchanges	100
RIICWD513A	Prepare detailed design of rail civil infrastructure	100
RIICWD514A	Prepare detailed design of dams	100
RIICWD515A	Prepare detailed design of airfield civil works	100
RIICWD516A	Prepare detailed design of bicycle ways	50
RIICWD517A	Prepare detailed design of industrial hardstands	100
RIICWD518A	Prepare detailed design of open car parks	50
RIICWD519A	Prepare detailed design of intermodal facilities civil works	100
RIICWD520A	Prepare detailed design of rigid pavements	100
RIICWD521A	Prepare detailed design of flexible pavements	100
RIICWD522A	Prepare stabilised material mix design	100
RIICWD523A	Prepare asphalt mix design	60
RIICWD524B	Prepare design of spray seal surfacing	60
RIICWD525B	Select pavement surfacing	60
RIICWD526A	Prepare detailed traffic analysis	100
RIICWD527A	Prepare detailed design of traffic signals	100
RIICWD528A	Prepare detailed design of traffic management systems	100
RIICWD529A	Prepare detailed design of underground services	100
RIICWD530A	Prepare detailed design of surface drainage	100
RIICWD531A	Prepare detailed design of subsurface drainage	100
RIICWD532A	Prepare detailed design of tunnels	100
RIICWD533A	Prepare detailed design of civil concrete structures	100
RIICWD534A	Prepare detailed design of civil steel structures	100
RIICWD535A	Prepare detailed design of civil timber structures	100
RIICWD536A	Prepare detailed design of civil masonry, crib and gabion structures	100
RIICWD537A	Prepare detailed design of marine structures civil works	120
RIICWD601A	Manage the civil works design process	300
RIICWM401B	Supervise civil works	80
RIICWM402A	Supervise civil works contractors	100
RIICWM501A	Implement civil construction plan	120
RIICWM502A	Implement civil works maintenance program	120
RIICWM503A	Prepare civil works cost estimate	100
RIICWM504A	Prepare civil works bill of quantities	100
RIICWM505A	Prepare civil works schedule of rates	100

Unit Code	Unit Title	Nominal Hours
RIICWM601A	Establish civil constructions plans	300
RIICWM602A	Establish civil works maintenance programs	300
RIIDES301	Inspect, test and maintain diesel systems for ancillary systems	80
RIIDES302	Inspect, test and maintain joints on diesel engine systems	40
RIIDES303	Inspect, test and maintain cooling systems on diesel engine systems	20
RIIDES304	Inspect, test and maintain inlet systems on diesel engine systems	20
RIIDES305	Inspect, test and maintain exhaust systems on diesel engine systems	20
RIIDES306	Inspect, test and maintain safety shutdown systems on diesel engine systems	40
RIIDES307	Test, determine the cause and rectify excessive emission levels on diesel engine systems	20
RIIDML401A	Apply the principles of demolitions	100
RIIEGS201A	Operate in isolated and remote situations	40
RIIEGS202B	Conduct field work	40
RIIEGS301A	Operate and maintain instruments and field equipment	40
RIIEGS302A	Plan and undertake field trip	40
RIIEGS303A	Provide geological field assistance	40
RIIEGS304A	Mobilise equipment and materials	40
RIIEGS305B	Navigate in remote or trackless areas	40
RIIEGS306A	Prepare drill site	40
RIIENV201A	Identify and assess environmental and heritage concerns	20
RIIENV202A	Suppress airborne contaminants	30
RIIENV301A	Conduct atmospheric monitoring	40
RIIENV302A	Apply environmentally sustainable work practices	30
RIIENV401A	Supervise dust and noise control	40
RIIENV402A	Implement and monitor environmental policies	40
RIIENV501A	Implement and maintain environmental management plan	120
RIIENV502A	Undertake process or project environmental impact assessment	120
RIIENV601A	Establish and maintain the environmental management system	100
RIIERR201A	Conduct fire team operations	40
RIIERR202A	Contribute to the control of emergencies and critical situations	30
RIIERR203B	Escape from hazardous situation unaided	40
RIIERR204A	Provide aided rescue to endangered personnel	40
RIIERR205A	Apply initial response First Aid	20
RIIERR301A	Respond to mine incident	20
RIIERR302A	Respond to local emergencies and incidents	20
RIIERR303A	Operate in self-contained regenerative oxygen breathing apparatus	20
RIIERR304A	Control emergencies and critical situations	30
RIIERR305A	Control underground fires	30
RIIERR306A	Conduct underground search	20
RIIERR307A	Extricate casualties from underground incident	30
RIIERR308A	Extricate and transport people involved in incidents	40
RIIERR309A	Establish and operate from fresh air base	20

Unit Code	Unit Title	Nominal Hours
RIIERR310A	Provide support for rescue operations	20
RIIERR311A	Assess and implement life support systems and stabilise casualties	40
RIIERR401B	Apply and monitor surface operations emergency preparedness and response systems	60
RIIERR402A	Apply and monitor underground coal mine emergency preparedness and response systems	60
RIIERR403A	Lead rescue team	40
RIIERR404A	Apply and monitor underground metalliferous mine emergency preparedness and response systems	60
RIIERR501A	Implement underground coal mine emergency preparedness and response systems	60
RIIERR503A	Implement emergency preparedness and response systems	70
RIIERR504A	Manage major incidents and emergencies	120
RIIERR601A	Establish and maintain mine emergency preparedness and response systems	120
RIIERR602A	Establish and maintain underground coal mine emergency preparedness and response systems	80
RIIFIA401A	Manage financial records	50
RIIGOV201A	Comply with site work processes/procedures	20
RIIGOV401B	Apply, monitor and report on compliance systems	80
RIIGOV501A	Identify, implement and maintain legal compliance requirements	80
RIIGOV601A	Establish, maintain and develop a statutory compliance management system	120
RIIHAN201A	Operate a forklift	40
RIIHAN202A	Handle and store cargo	20
RIIHAN203A	Conduct lifting operations	40
RIIHAN204A	Load and unload cargo/goods	20
RIIHAN205A	Secure Cargo	12
RIIHAN206A	Transport plant, equipment and personnel	30
RIIHAN207A	Operate personnel and materials hoists	30
RIIHAN208A	Perform dogging	80
RIIHAN209A	Perform basic rigging	40
RIIHAN210A	Perform intermediate rigging operations	40
RIIHAN211A	Conduct basic scaffolding operations	56
RIIHAN212A	Conduct non-slewing crane operations	40
RIIHAN213A	Work effectively in the drilling industry	50
RIIHAN301B	Operate elevating work platform	40
RIIHAN302A	Conduct intermediate scaffolding operations	40
RIIHAN304A	Conduct slewing crane operations	80
RIIHAN305A	Operate a gantry or overhead crane	40
RIIHAN306A	Carry out lifting using multiple cranes	40
RIIHAN307A	Operate a vehicle loading crane	40
RIIHAN308A	Load and unload plant	20
RIIHAN309A	Conduct telescopic materials handler operations	80
RIIHAN310A	Conduct crane operations underground	40

Unit Code	Unit Title	Nominal Hours
RIIHAN311A	Conduct operations with integrated tool carrier	80
RIIHAN401A	Organise and monitor wharf/terminal operations	24
RIIHAN402A	Process movement of containers and cargo	28
RIIMG301A	Maintain site records	10
RIILAT401A	Provide leadership in the supervision of Indigenous employees	50
RIILAT601A	Manage group processes	120
RIIMCO201A	Conduct spreader operations	60
RIIMCO202A	Conduct mobile slew conveyor operations	40
RIIMCO301A	Conduct control centre operations	60
RIIMCO302A	Conduct surface miner operations	60
RIIMCO303A	Conduct auger miner operations	80
RIIMCP202A	Conduct rail dispatch operations	40
RIIMCP301A	Monitor coal preparation plant operations	60
RIIMCU201A	Operate power tram	40
RIIMCU202A	Conduct tracked vehicle/plant operations	40
RIIMCU203A	Conduct wheeled vehicle operations (non-articulated)	40
RIIMCU204A	Conduct wheeled vehicle operations (articulated)	40
RIIMCU205A	Conduct rotational drilling	40
RIIMCU206A	Install, maintain and recover gas drainage systems	40
RIIMCU207A	Install, maintain and recover electrical services	20
RIIMCU208A	Conduct basic strata control operations	40
RIIMCU209A	Conduct roadway maintenance	20
RIIMCU210A	Conduct stonedusting operations	20
RIIMCU211A	Install and maintain explosion barriers	20
RIIMCU212A	Construct and maintain basic ventilation devices	20
RIIMCU213A	Conduct feeder breaker operations	40
RIIMCU214A	Conduct face ventilation operations	40
RIIMCU215A	Operate longwall ancillary equipment	40
RIIMCU216A	Maintain lamp cabin operations	40
RIIMCU301A	Conduct specialised strata control operations	40
RIIMCU302A	Construct and maintain ventilation devices	40
RIIMCU303A	Conduct continuous miner operations	120
RIIMCU304A	Conduct shuttle car operations	40
RIIMCU305A	Conduct outburst mining operations	40
RIIMCU306A	Conduct shearer operations	40
RIIMCU307A	Conduct longwall face equipment operations	120
RIIMCU308A	Install and recover longwall equipment	40
RIIMCU309A	Operate breaker line supports	40
RIIMCU310A	Conduct flexible conveyor train (FCT) operations	40
RIIMCU311A	Monitor control processes	40
RIIMCU401A	Conduct special roadway operations	60
RIIMCU402A	Apply spontaneous combustion management measures	40

Unit Code	Unit Title	Nominal Hours
RIIMCU403A	Apply and monitor the gas management plan	60
RIIMCU404A	Apply and monitor the gas drainage management plan	60
RIIMCU405A	Apply and monitor the outburst management plan	60
RIIMCU406A	Apply and monitor the inrush management plan	70
RIIMCU407A	Apply and monitor the strata management plan	60
RIIMCU408A	Apply the spontaneous combustion management plan	60
RIIMCU501A	Implement the spontaneous combustion management plan	60
RIIMCU502A	Implement the gas management plan	60
RIIMCU503A	Implement the gas drainage management plan	60
RIIMCU504A	Implement the outburst management plan	60
RIIMCU505A	Implement the inrush management plan	80
RIIMCU506A	Implement strata management plan	60
RIIMCU601A	Establish and maintain the spontaneous combustion management plan	80
RIIMCU602A	Establish and maintain the gas management system	80
RIIMCU603A	Establish and maintain the gas drainage management plan	80
RIIMCU604A	Establish and maintain the outburst management plan	80
RIIMCU605A	Establish and maintain the inrush management plan	100
RIIMCU606A	Establish and maintain the mining method and strata management systems	80
RIIMEX201A	Suppress dust in open-cut environment	30
RIIMEX202A	Install open-cut mine ground support	25
RIIMEX203B	Break oversize rock	32
RIIMEX204A	Conduct workboat/barge operations	30
RIIMEX301A	Conduct dredging operations	40
RIIMEX302B	Assess ground conditions	20
RIIMEX401A	Apply pit plan	190
RIIMEX402A	Supervise dredging operations	40
RIIMEX403A	Apply the principles of canal construction	100
RIIMEX404B	Apply and monitor systems for stable mining	80
RIIMEX405A	Apply and monitor systems and methods of surface coal mining	80
RIIMEX406A	Apply and monitor mine transport system and production equipment	60
RIIMEX501A	Implement pit plan	90
RIIMEX502A	Implement systems and methods of mining	70
RIIMEX503A	Manage dredging operations	60
RIIMEX601A	Plan pit development	120
RIIMEX602A	Establish and maintain surface mining ground control and slope stability systems	120
RIIMEX603A	Establish and maintain underground mining ground control and stable mining systems	120
RIIMEX604A	Establish and maintain surface product haulage and transport systems	120
RIIMEX605A	Establish, implement and maintain operational management plans	120
RIIMPG201A	Connect and disconnect refer units	20
RIIMPG301A	Control and monitor automated plant/machinery	40
RIIMPO201A	Operate roller/compactor underground	24

Unit Code	Unit Title	Nominal Hours
RIIMPO202A	Undertake towing underground	20
RIIMPO203A	Support bucket wheel system operations	60
RIIMPO204A	Conduct conveyor shifting dozer operations	40
RIIMPO205B	Operate roller/compactor	20
RIIMPO206B	Conduct bulk water truck operations	30
RIIMPO208A	Operate support equipment	60
RIIMPO210A	Conduct underground truck operations	24
RIIMPO301C	Conduct hydraulic excavator operations	40
RIIMPO302B	Conduct hydraulic shovel operations	40
RIIMPO303A	Conduct rope shovel operations	50
RIIMPO304B	Conduct wheel loader operations	40
RIIMPO305B	Conduct coal stockpile dozer operations	40
RIIMPO306A	Operate plant/machinery on live stockpiles	24
RIIMPO307B	Conduct wheel grader operations in underground mines	60
RIIMPO308B	Conduct tracked dozer operations	40
RIIMPO309A	Conduct wheeled dozer operations	40
RIIMPO310B	Conduct grader operations	40
RIIMPO311A	Conduct haul truck operations	40
RIIMPO312A	Conduct scraper operations	40
RIIMPO313B	Conduct face loader operations	40
RIIMPO314A	Operate small open cut mine equipment	30
RIIMPO315A	Conduct tractor operations	60
RIIMPO316A	Conduct self propelled compactor operations	40
RIIMPO317A	Conduct roller operations	80
RIIMPO318B	Conduct civil construction skid steer loader operations	80
RIIMPO319A	Conduct backhoe/loader operations	200
RIIMPO320B	Conduct civil construction excavator operations	200
RIIMPO321B	Conduct civil construction wheeled front end loader operations	160
RIIMPO322A	Conduct civil construction tracked front end loader operations	80
RIIMPO323A	Conduct civil construction dozer operations	240
RIIMPO324A	Conduct civil construction grader operations	240
RIIMPO325A	Conduct civil construction scraper operations	160
RIIMPO326A	Conduct civil construction water cart operations	40
RIIMPO327A	Conduct pipe layer operations	80
RIIMPO328A	Conduct continuous bucket trencher operations	40
RIIMPO329A	Conduct dragline operations	120
RIIMPO330A	Conduct bucket-wheel operations	80
RIIMPO331A	Conduct operations with stockpile dozer	40
RIIMPO332A	Conduct operations with skid steer loader	60
RIIMPO333	Conduct underground load, haul and dump truck operations	80
RIIMPO401A	Supervise mobile plant operations	40
RIIMPO402A	Apply the principles of earthworks construction	100

Unit Code	Unit Title	Nominal Hours
RIIMPO403A	Monitor interaction of heavy and light vehicles and mining equipment	60
RIIMPO501A	Implement, monitor, rectify and report on mobile plant and equipment systems	80
RIIMPO502A	Manage the interaction of heavy and light vehicles and mining equipment	100
RIIMPO503A	Manage laser levelling of operating plant	80
RIIMSM301A	Establish a mining claim	30
RIIMSM302A	Plan small mine operations	40
RIIMSM303A	Install underground shaft	40
RIIMSM304A	Inspect small mines operations	30
RIIMSM305A	Conduct materials extraction operations underground	40
RIIMSM306A	Design and maintain pillar system and ground control	40
RIIMSM307A	Install and maintain ventilation systems and equipment	40
RIINHB201B	Load, secure and unload drilling equipment and materials	40
RIINHB202A	Set up/pack up drill site	40
RIINHB203A	Support drilling process	60
RIINHB205A	Assist continuous flight auger drilling	40
RIINHB206A	Assist large diameter auger drilling	40
RIINHB208B	Assist diamond core drilling	40
RIINHB209A	Assist guided boring	40
RIINHB210B	Assist surface directional drilling	40
RIINHB211A	Assist mud rotary drilling	40
RIINHB213A	Assist cable tool drilling	40
RIINHB216A	Assist underground in-seam directional drilling	40
RIINHB217A	Assist horizontal direction drilling	40
RIINHB218A	Assist grouting or cementing operations	40
RIINHB219A	Assist with air drilling	40
RIINHB301A	Set up and prepare for drilling operations	65
RIINHB302A	Conduct reaming	65
RIINHB303A	Install product pipe	40
RIINHB304B	Conduct air drilling	65
RIINHB305A	Conduct continuous flight auger drilling	65
RIINHB306A	Conduct large diameter auger drilling	65
RIINHB307B	Conduct conventional core drilling	65
RIINHB308A	Conduct wireline core drilling	65
RIINHB309A	Conduct guided boring	65
RIINHB310A	Conduct surface directional drilling	65
RIINHB311A	Conduct mud rotary drilling	65
RIINHB312A	Conduct raise boring	65
RIINHB313A	Conduct cable tool drilling	65
RIINHB315A	Conduct top-hole hammer drilling	65
RIINHB316A	Conduct underground in-seam directional drilling	40
RIINHB317A	Install underground in-seam directional drilling standpipes	40
RIINHB318A	Install and operate water and gas control equipment	40

Unit Code	Unit Title	Nominal Hours
RIINHB319A	Install de-watering conduit and gas drainage equipment	40
RIINHB320A	Construct monitoring bores	65
RIIMEX203B	Break oversize rock	32
RIIMEX204A	Conduct workboat/barge operations	30
RIIMEX301A	Conduct dredging operations	40
RIIMEX302B	Assess ground conditions	20
RIIMEX401A	Apply pit plan	190
RIIMEX402A	Supervise dredging operations	40
RIIMEX403A	Apply the principles of canal construction	100
RIIMEX404B	Apply and monitor systems for stable mining	80
RIIMEX405A	Apply and monitor systems and methods of surface coal mining	80
RIIMEX406A	Apply and monitor mine transport system and production equipment	60
RIIMEX501A	Implement pit plan	90
RIIMEX502A	Implement systems and methods of mining	70
RIIMEX503A	Manage dredging operations	60
RIIMEX601A	Plan pit development	120
RIIMEX602A	Establish and maintain surface mining ground control and slope stability systems	120
RIIMEX603A	Establish and maintain underground mining ground control and stable mining systems	120
RIIMEX604A	Establish and maintain surface product haulage and transport systems	120
RIIMEX605A	Establish, implement and maintain operational management plans	120
RIIMPG201A	Connect and disconnect refer units	20
RIIMPG301A	Control and monitor automated plant/machinery	40
RIIMPO201A	Operate roller/compactor underground	24
RIIMPO202A	Undertake towing underground	20
RIIMPO203A	Support bucket wheel system operations	60
RIIMPO204A	Conduct conveyor shifting dozer operations	40
RIIMPO205B	Operate roller/compactor	20
RIIMPO206B	Conduct bulk water truck operations	30
RIIMPO208A	Operate support equipment	60
RIIMPO210A	Conduct underground truck operations	24
RIIMPO301C	Conduct hydraulic excavator operations	40
RIIMPO302B	Conduct hydraulic shovel operations	40
RIIMPO303A	Conduct rope shovel operations	50
RIIMPO304B	Conduct wheel loader operations	40
RIIMPO305B	Conduct coal stockpile dozer operations	40
RIIMPO306A	Operate plant/machinery on live stockpiles	24
RIIMPO307B	Conduct wheel grader operations in underground mines	60
RIIMPO308B	Conduct tracked dozer operations	40
RIIMPO309A	Conduct wheeled dozer operations	40
RIIMPO310B	Conduct grader operations	40
RIIMPO311A	Conduct haul truck operations	40

Unit Code	Unit Title	Nominal Hours
RIIMPO312A	Conduct scraper operations	40
RIIMPO313B	Conduct face loader operations	40
RIIMPO314A	Operate small open cut mine equipment	30
RIIMPO315A	Conduct tractor operations	60
RIIMPO316A	Conduct self propelled compactor operations	40
RIIMPO317A	Conduct roller operations	80
RIIMPO318B	Conduct civil construction skid steer loader operations	80
RIIMPO319A	Conduct backhoe/loader operations	200
RIIMPO320B	Conduct civil construction excavator operations	200
RIIMPO321B	Conduct civil construction wheeled front end loader operations	160
RIIMPO322A	Conduct civil construction tracked front end loader operations	80
RIIMPO323A	Conduct civil construction dozer operations	240
RIIMPO324A	Conduct civil construction grader operations	240
RIIMPO325A	Conduct civil construction scraper operations	160
RIIMPO326A	Conduct civil construction water cart operations	40
RIIMPO327A	Conduct pipe layer operations	80
RIIMPO328A	Conduct continuous bucket trencher operations	40
RIIMPO329A	Conduct dragline operations	120
RIIMPO330A	Conduct bucket-wheel operations	80
RIIMPO331A	Conduct operations with stockpile dozer	40
RIIMPO332A	Conduct operations with skid steer loader	60
RIIMPO333	Conduct underground load, haul and dump truck operations	80
RIIMPO401A	Supervise mobile plant operations	40
RIIMPO402A	Apply the principles of earthworks construction	100
RIIMPO403A	Monitor interaction of heavy and light vehicles and mining equipment	60
RIIMPO501A	Implement, monitor, rectify and report on mobile plant and equipment systems	80
RIIMPO502A	Manage the interaction of heavy and light vehicles and mining equipment	100
RIIMPO503A	Manage laser levelling of operating plant	80
RIIMSM301A	Establish a mining claim	30
RIIMSM302A	Plan small mine operations	40
RIIMSM303A	Install underground shaft	40
RIIMSM304A	Inspect small mines operations	30
RIIMSM305A	Conduct materials extraction operations underground	40
RIIMSM306A	Design and maintain pillar system and ground control	40
RIIMSM307A	Install and maintain ventilation systems and equipment	40
RIINHB201B	Load, secure and unload drilling equipment and materials	40
RIINHB202A	Set up/pack up drill site	40
RIINHB203A	Support drilling process	60
RIINHB205A	Assist continuous flight auger drilling	40
RIINHB206A	Assist large diameter auger drilling	40
RIINHB208B	Assist diamond core drilling	40
RIINHB209A	Assist guided boring	40

Unit Code	Unit Title	Nominal Hours
RIINHB210B	Assist surface directional drilling	40
RIINHB211A	Assist mud rotary drilling	40
RIINHB213A	Assist cable tool drilling	40
RIINHB216A	Assist underground in-seam directional drilling	40
RIINHB217A	Assist horizontal direction drilling	40
RIINHB218A	Assist grouting or cementing operations	40
RIINHB219A	Assist with air drilling	40
RIINHB301A	Set up and prepare for drilling operations	65
RIINHB302A	Conduct reaming	65
RIINHB303A	Install product pipe	40
RIINHB304B	Conduct air drilling	65
RIINHB305A	Conduct continuous flight auger drilling	65
RIINHB306A	Conduct large diameter auger drilling	65
RIINHB307B	Conduct conventional core drilling	65
RIINHB308A	Conduct wireline core drilling	65
RIINHB309A	Conduct guided boring	65
RIINHB310A	Conduct surface directional drilling	65
RIINHB311A	Conduct mud rotary drilling	65
RIINHB312A	Conduct raise boring	65
RIINHB313A	Conduct cable tool drilling	65
RIINHB315A	Conduct top-hole hammer drilling	65
RIINHB316A	Conduct underground in-seam directional drilling	40
RIINHB317A	Install underground in-seam directional drilling standpipes	40
RIINHB318A	Install and operate water and gas control equipment	40
RIINHB319A	Install de-watering conduit and gas drainage equipment	40
RIINHB320A	Construct monitoring bores	65
RIINHB322A	Construct multiple aquifer production bores	65
RIINHB323A	Conduct horizontal directional drilling	65
RIINHB324B	Conduct grouting or cementing operations	40
RIINHB325A	Construct and complete single aquifer production bores	70
RIINHB401A	Plan and supervise the mobilisation of equipment, crew and materials	50
RIINHB402A	Supervise mineral exploration drilling operations	50
RIINHB403A	Supervise geotechnical drilling operations	50
RIINHB404A	Supervise seismic drilling operations	50
RIINHB405A	Supervise water well drilling operations	50
RIINHB406A	Supervise foundation drilling operations	50
RIINHB407A	Supervise horizontal directional drilling operations	50
RIINHB408A	Supervise environmental drilling operations	50
RIINHB409A	Supervise mineral production and development drilling operations	50
RIINHB410A	Supervise surface directional drilling operations	50
RIINHB411A	Construct artesian (flowing) aquifer production bores	65
RIINHB412B	Construct geothermal wells	65

Unit Code	Unit Title	Nominal Hours
RIINHB413A	Supervise underground in-seam directional drilling operations	65
RIINHB501A	Plan drilling	60
RIIOGD201A	Assist in maintaining rig safety and emergency procedures	40
RIIOGD202A	Carry out equipment and basic rig maintenance	40
RIIOGD203A	Prepare and operate drilling fluid systems	30
RIIOGD204A	Perform rig floor operations	50
RIIOGD205A	Support blow out prevention operations	20
RIIOGD206A	Assist with coal seam gas control	20
RIIOGD209A	Operate and maintain ancillary equipment	40
RIIOGD301A	Conduct and maintain derrick operations	50
RIIOGD302A	Trip casing	30
RIIOGD303A	Trip pipe	30
RIIOGD304A	Apply effective coal seam gas control practices	40
RIIOGD305A	Apply blow out prevention operational procedures	40
RIIOGD401A	Rig up, conduct pre-spud operations and rig down	30
RIIOGD402A	Participate in nippling-up and pressure test	30
RIIOGD403A	Conduct drilling operations	30
RIIOGD404A	Coordinate air drilling operations	30
RIIOGD405A	Carry out well control and blow out prevention	65
RIIOGD406A	Shut down rig	30
RIIOGD501A	Manage rig operations	40
RIIOGD502A	Plan and evaluate rig operations	40
RIIOGD503A	Oversee drilling operations	80
RIIOGD504A	Manage drilling operations	80
RIIOGD505A	Manage drilling induction and orientation	50
RIIOGD506A	Manage rig move and camp move	50
RIIOGD507A	Manage and monitor rig-up and rig-up to spud operations	50
RIIOGD508A	Manage well completion and abandonment	50
RIIOGD601A	Manage multiple drilling operations	80
RIIOGF201A	Carry out deck operations	20
RIIOGF202A	Assist in the transfer of passengers and freight during helicopter operations	20
RIIOGF203A	Contribute to the control of offshore emergencies	20
RIIOGF301A	Monitor, operate and maintain mud pits and equipment	30
RIIOGF302A	Operate drilling fluids and mud pits	40
RIIOGN201A	Carry out rig lease operations	30
RIIOGN302A	Operate mud pumps	20
RIIOGN303A	Operate mud systems	40
RIIOHS201A	Work safely and follow OHS policies and procedures	20
RIIOHS202A	Enter and work in confined spaces	30
RIIOHS203A	Maintain amenities	20
RIIOHS204A	Work safely at heights	20
RIIOHS205A	Control traffic with stop-slow bat	20

Unit Code	Unit Title	Nominal Hours
RIIOHS301A	Conduct safety and health investigations	30
RIIOHS302A	Implement traffic management plan	20
RIIOHS401A	Supervise work in confined spaces	60
RIIOHS402A	Examine and maintain mine safety	50
RIIOHS403A	Apply the mine occupational health and safety management plan	80
RIIOHS404A	Implement and monitor health and hygiene management systems	50
RIIOHS405A	Maintain standard procedures and safe working practices	20
RIIOHS601A	Establish and maintain the OHS management system	120
RIIOHS602A	Incorporate health and hygiene factors into mine management	60
RIIPBE201A	Conduct aeration process	28
RIIPBE202A	Conduct digestion process	32
RIIPBE203A	Conduct precipitation operations	32
RIIPBE204A	Conduct reduction process	32
RIIPBE205B	Conduct roasting operations	32
RIIPBE301A	Conduct calcinations activities	26
RIIPBE302A	Conduct bacterial oxidation	32
RIIPBE303B	Conduct filtering process	26
RIIPBE304B	Conduct heavy media separation	32
RIIPBE305A	Conduct high tension separation	28
RIIPBE306A	Conduct leaching process	32
RIIPBE307A	Conduct pressure oxidation	32
RIIPBE308B	Conduct thickening and clarifying process	24
RIIPBE309B	Conduct wet gravity separation	28
RIIPBE310B	Conduct flotation process	38
RIIPBE311B	Conduct magnetic separation	28
RIIPBP202A	Conduct air cleaning activities	32
RIIPBP301A	Process lime products	32
RIIPBP302A	Control operations in acid plant	40
RIIPEO201B	Conduct conveyor operations	40
RIIPEO202A	Provide deck support for conveyor-car high wall mining operations	40
RIIPEO203B	Conduct stacker operations	30
RIIPEO204A	Conduct shore side mooring operations	30
RIIPEO205A	Conduct ship loading operations	30
RIIPEO206A	Lay and recover cables and hoses	20
RIIPEO207A	Coordinate conveyor system shift	20
RIIPEO208A	Extend, retract and maintain conveyor componentry	20
RIIPEO301A	Conduct conveyor-car high wall mining operations	40
RIIPEO302	Operate and monitor ore car dumpers	40
RIIPGP201A	Conduct pump operations	16
RIIPGP202A	Handle reagents	28
RIIPGP203A	Operate compressors	24
RIIPGP204A	Carry out bore-field operations	30

Unit Code	Unit Title	Nominal Hours
RIIPGP205A	Handle, store and use cyanide	30
RIIPGP301A	Conduct drying activities	26
RIIPGP302A	Monitor and operate auxiliary plant and equipment	40
RIIPHA201A	Operate raw material feed systems	20
RIIPHA301A	Conduct milling/grinding	32
RIIPHA302A	Operate and monitor filter processes	24
RIIPHA303A	Operate agglomeration circuit	32
RIIPRE201A	Conduct solvent extraction	36
RIIPRE202A	Prepare and carry out electrolytic cleaning process	26
RIIPRE203A	Prepare for sintering activities	14
RIIPRE204A	Sinter materials	14
RIIPRE301A	Conduct electrowinning/electrorefining operations	36
RIIPRE302A	Conduct elution processes	32
RIIPRE303A	Conduct gold room operations	40
RIIPRE304A	Monitor casting quality	24
RIIPRM501A	Implement, monitor, rectify and report on contracts	80
RIIPRO201A	Conduct crushing operations	30
RIIPRO202A	Conduct screening and conveying operations	30
RIIPRO203A	Operate programmable logic control systems	30
RIIPRO204A	Bulk package and store product	20
RIIPRO205A	Conduct blending plant operations	30
RIIPRO301C	Conduct crushing and screening plant operations	50
RIIPRO302A	Perform process control room operations	50
RIIPRO303A	Conduct sand wash plant operations	30
RIIPRO401A	Supervise processing operations	60
RIIPRO402A	Supervise recycled materials operations	40
RIIPRO501A	Implement site processing plant operations	40
RIIPRO502A	Develop, implement and maintain process control systems	40
RIIPRO601A	Design processing plant	150
RIIPSM201A	Tap furnaces	24
RIIPSM202A	Prepare for pelletising activities	14
RIIPSM203A	Produce pellets	14
RIIPSM301A	Cast a blast furnace	34
RIIPSM302A	Cast ingots	20
RIIPSM303A	Operate a blast furnace	52
RIIPSM304A	Operate furnaces	32
RIIPSM305A	Operate converters	32
RIIPSM306A	Supply molten metal and additives to furnaces	28
RIIPSM307A	Control molten metal in holding furnace/vessel	32
RIIPSM308A	Monitor and maintain furnace gas efficiency	32
RIIPSM309A	Monitor and maintain flue gas efficiency	32
RIIQUA201A	Maintain and monitor site quality standards	20

Unit Code	Unit Title	Nominal Hours
RIIQUA401A	Apply a quality management system on site	60
RIIQUA501A	Implement, monitor and develop quality management plans	100
RIIQUA601A	Establish and maintain a quality system	100
RIIRAI401A	Apply and monitor mine services and infrastructure systems	60
RIIRAI402A	Apply and monitor site plant and resource management plan	60
RIIRAI501B	Implement mine transport systems and production equipment	60
RIIRAI502A	Implement site plant and resource management plan	70
RIIRAI503B	Implement site services and infrastructure systems	70
RIIRAI504A	Select and install surface plant and equipment	70
RIIRAI505A	Implement the surface mine mechanical plant management plan	100
RIIRAI506A	Implement, monitor, rectify and report on inventory control system	80
RIIRAI507A	Implement the underground coal mine mechanical plant management plan	80
RIIRAI508A	Implement mine services systems	80
RIIRAI509A	Implement mine fixed plant and infrastructure systems	80
RIIRAI510A	Implement, monitor, rectify and report on interfaces between electrical and mechanical componentry	80
RIIRAI601A	Establish and maintain the site infrastructure and fixed plant systems	120
RIIRAI602A	Establish and maintain mine mechanical plant, services and infrastructure systems	120
RIIRAI603A	Establish and maintain mine transport systems and production equipment	80
RIIRAI604A	Establish and maintain mine services and infrastructure systems	80
RIIRAI605A	Establish and maintain an underground mine mechanical plant management system	100
RIIRAI606A	Establish and maintain mine closure management systems	120
RIIRAI607A	Establish quarry operations	100
RIIRAI608A	Establish quarry development	180
RIIRAI609A	Establish and maintain electrical installations, reticulation and protection system	120
RIIRAI610A	Establish and maintain mechanical standard and engineering practices for transport and production equipment	120
RIIRAI611A	Establish and maintain a surface mine mechanical plant management system	100
RIIRAI612A	Establish and maintain underground product haulage and transport systems	120
RIIRIS201B	Conduct local risk control	20
RIIRIS301B	Apply risk management processes	40
RIIRIS401A	Apply site risk management system	40
RIIRIS402A	Carry out the risk management processes	60
RIIRIS501A	Implement and maintain management system to control risk	80
RIIRIS601A	Establish and maintain the risk management system	100
RIISAM201A	Handle resources and infrastructure materials and safely dispose of non toxic materials	16
RIISAM202A	Isolate and access plant	30
RIISAM203B	Use hand and power tools	80
RIISAM204B	Operate small plant and equipment	20
RIISAM205A	Cut, weld and bend materials	40

Unit Code	Unit Title	Nominal Hours
RIISAM207A	Apply operational maintenance skills	40
RIISAM208A	Perform plant operational maintenance	50
RIISAM209A	Carry out operational maintenance	40
RIISAM210A	Remove and fit wheel assemblies	40
RIISAM211B	Remove, repair and refit tyres and tubes	40
RIISAM212A	Service mine plant and equipment	40
RIISAM213A	Position and set up mobile lighting	10
RIISAM214A	Provide support to electrical tradesperson	40
RIISAM215A	Carry out drilling industry operational maintenance	40
RIISAM301A	Test operational functions of vehicles and equipment	30
RIISAM302A	Service and handover plant and machines	30
RIISAM303A	Shut down dredge for operator maintenance	40
RIISAM304A	Install, commission and maintain major conveyor equipment and systems	80
RIISAM305A	Repair and splice conveyor belting	40
RIISAM306A	Service and maintain conveyors, feeders and hoppers	40
RIISAM307A	Service and maintain crushers	40
RIISAM308A	Service and maintain screens	40
RIISAM309A	Service and maintain pumps	40
RIISAM310A	Install and commission plant, machinery and services	40
RIISAM311A	Maintain winder equipment	40
RIISAM312A	Inspect and maintain shafts and structures	24
RIISAM313A	Monitor, inspect and service ropes and attachments	32
RIISAM314A	Manage oil and gas drilling equipment maintenance	40
RIISAM401A	Apply site plant, equipment and infrastructure maintenance management plan	40
RIISAM402A	Supervise operation of electrical equipment and installations	40
RIISAM403A	Commission/recommission plant	66
RIISAM501A	Implement and maintain the site plant, equipment and infrastructure maintenance plan	60
RIISAM502B	Manage general drilling equipment maintenance	60
RIISAM601A	Establish and maintain plant, equipment and infrastructure maintenance system	120
RIISAM602A	Establish and maintain maintenance management system for mechanical plant and equipment	120
RIISDM501A	Conduct mine surveying operations	80
RIISRM301B	Blend stockpile materials	20
RIISRM302B	Conduct stockpile reclaiming operations	40
RIISRM303B	Move and position materials to form stockpiles	24
RIISRM304B	Maintain stockpiles	20
RIISRM401A	Apply and monitor the site stockpile management plan	60
RIISRM501A	Implement the stockpile management plan	60
RIISRM502A	Design stockpile formations and reclaiming systems	40
RIISRM601A	Establish and maintain the stockpile management system	120
RIISTD201A	Read and interpret maps	40

Unit Code	Unit Title	Nominal Hours
RIISTD202A	Collect routine site samples	40
RIISTD301A	Take environmental samples and measurements	120
RIISTD302A	Process data and maintain accurate records	40
RIIUMM201A	Install ground support	30
RIIUMM202A	Install and maintain vent	24
RIIUMM203A	Prepare and perform manual scaling operations	14
RIIUMM301A	Conduct wet filling activities	16
RIIUMM302A	Install sets	32
RIIUMM303A	Conduct hand held mining	40
RIIUMM304A	Construct and maintain underground roads	40
RIIUMM305A	Install and remove a secondary fan	16
RIIUMM306A	Conduct mechanical scaling	22
RIIUMM307A	Maintain underground stockpiles	24
RIIUND201A	Install, maintain and recover reticulation systems.	24
RIIUND202A	Operate from elevated work platform underground	30
RIIUND204A	Refuel vehicles/machines underground	32
RIIUND205A	Respond to a workforce incident	32
RIIUND206A	Install hand held underground ground support	20
RIIUND207A	Conduct underground lifting operations	40
RIIUND208A	Conduct skip operations	24
RIIUND209A	Operate automated winder	24
RIIUND301A	Operate manual winder	32
RIIUND302A	Conduct cage operations	32
RIIUND303A	Operate winder for shaft sinking	32
RIIUND304A	Recover equipment	30
RIIUND305A	Recover underground equipment	40
RIIUND306A	Conduct line of sight remote operations	28
RIIUND307A	Conduct tele-remote operations	28
RIIUND308A	Conduct control room operations	40
RIIUND309A	Conduct mechanical underground ground support drilling and installation	40
RIIUND310	Apply shot-crete underground	40
RIIUND401B	Apply and monitor the ventilation management plan	60
RIIUND501A	Implement the ventilation management plan	70
RIIUND601A	Establish and maintain the ventilation management system	120
RIIUND602A	Establish and maintain mine services systems	120
RIIUND603A	Manage, operate and maintain the mine ventilation system	60
RIIVEH201B	Operate light vehicle	30
RIIVEH202A	Operate a medium vehicle	30
RIIVEH203B	Operate light vehicle underground	40
RIIVEH301A	Conduct rail haulage operations	40
RIIVEH302A	Operate multi-combination vehicle	40
RIIVEH303A	Drive heavy combination vehicle	40

Unit Code	Unit Title	Nominal Hours
RIIVEH304B	Conduct tip truck operations	60
RIIVEH305A	Operate and maintain a four wheel drive vehicle	40
RIIVEH306A	Operate mine service vehicle	20
RIIVEH307A	Operate heavy rigid vehicle	40
RIIWBP201A	Treat and dispose of rejects and tailings	30
RIIWBP202A	Distribute tailings	16
RIIWBP203B	Monitor tailings dam environment	16
RIIWBP401A	Apply and monitor site waste and by-products management plan	60
RIIWBP501A	Implement site waste and by-product management plan	70
RIIWBP502A	Plan and monitor recycled material operations	40
RIIWBP601A	Establish and maintain waste and by-product management system	120
RIIWMG201A	Conduct dewatering activities in surface operations	30
RIIWMG202A	Conduct dewatering operations in underground mining operations	30
RIIWMG203A	Drain and dewater civil construction site	20
RIIWMG301A	Control construction site water table	24
RIIWMG302A	Reclaim and treat water	20
RIIWMG401A	Apply and monitor the site water management plan	60
RIIWMG402A	Monitor and coordinate waste and process water treatment	40
RIIWMG501A	Implement the site water management plan	70
RIIWMG601A	Establish and maintain water management system	120
RIINHB322A	Construct multiple aquifer production bores	65
RIINHB323A	Conduct horizontal directional drilling	65
RIINHB324B	Conduct grouting or cementing operations	40
RIINHB325A	Construct and complete single aquifer production bores	70
RIINHB401A	Plan and supervise the mobilisation of equipment, crew and materials	50
RIINHB402A	Supervise mineral exploration drilling operations	50
RIINHB403A	Supervise geotechnical drilling operations	50
RIINHB404A	Supervise seismic drilling operations	50
RIINHB405A	Supervise water well drilling operations	50
RIINHB406A	Supervise foundation drilling operations	50
RIINHB407A	Supervise horizontal directional drilling operations	50
RIINHB408A	Supervise environmental drilling operations	50
RIINHB409A	Supervise mineral production and development drilling operations	50
RIINHB410A	Supervise surface directional drilling operations	50
RIINHB411A	Construct artesian (flowing) aquifer production bores	65
RIINHB412B	Construct geothermal wells	65
RIINHB413A	Supervise underground in-seam directional drilling operations	65
RIINHB501A	Plan drilling	60
RIIOGD201A	Assist in maintaining rig safety and emergency procedures	40
RIIOGD202A	Carry out equipment and basic rig maintenance	40
RIIOGD203A	Prepare and operate drilling fluid systems	30
RIIOGD204A	Perform rig floor operations	50

Unit Code	Unit Title	Nominal Hours
RIIOGD205A	Support blow out prevention operations	20
RIIOGD206A	Assist with coal seam gas control	20
RIIOGD209A	Operate and maintain ancillary equipment	40
RIIOGD301A	Conduct and maintain derrick operations	50
RIIOGD302A	Trip casing	30
RIIOGD303A	Trip pipe	30
RIIOGD304A	Apply effective coal seam gas control practices	40
RIIOGD305A	Apply blow out prevention operational procedures	40
RIIOGD401A	Rig up, conduct pre-spud operations and rig down	30
RIIOGD402A	Participate in nipping-up and pressure test	30
RIIOGD403A	Conduct drilling operations	30
RIIOGD404A	Coordinate air drilling operations	30
RIIOGD405A	Carry out well control and blow out prevention	65
RIIOGD406A	Shut down rig	30
RIIOGD501A	Manage rig operations	40
RIIOGD502A	Plan and evaluate rig operations	40
RIIOGD503A	Oversee drilling operations	80
RIIOGD504A	Manage drilling operations	80
RIIOGD505A	Manage drilling induction and orientation	50
RIIOGD506A	Manage rig move and camp move	50
RIIOGD507A	Manage and monitor rig-up and rig-up to spud operations	50
RIIOGD508A	Manage well completion and abandonment	50
RIIOGD601A	Manage multiple drilling operations	80
RIIOGF201A	Carry out deck operations	20
RIIOGF202A	Assist in the transfer of passengers and freight during helicopter operations	20
RIIOGF203A	Contribute to the control of offshore emergencies	20
RIIOGF301A	Monitor, operate and maintain mud pits and equipment	30
RIIOGF302A	Operate drilling fluids and mud pits	40
RIIOGN201A	Carry out rig lease operations	30
RIIOGN302A	Operate mud pumps	20
RIIOGN303A	Operate mud systems	40
RIIOHS201A	Work safely and follow OHS policies and procedures	20
RIIOHS202A	Enter and work in confined spaces	30
RIIOHS203A	Maintain amenities	20
RIIOHS204A	Work safely at heights	20
RIIOHS205A	Control traffic with stop-slow bat	20
RIIOHS301A	Conduct safety and health investigations	30
RIIOHS302A	Implement traffic management plan	20
RIIOHS401A	Supervise work in confined spaces	60
RIIOHS402A	Examine and maintain mine safety	50
RIIOHS403A	Apply the mine occupational health and safety management plan	80
RIIOHS404A	Implement and monitor health and hygiene management systems	50

Unit Code	Unit Title	Nominal Hours
RIIOHS405A	Maintain standard procedures and safe working practices	20
RIIOHS601A	Establish and maintain the OHS management system	120
RIIOHS602A	Incorporate health and hygiene factors into mine management	60
RIIPBE201A	Conduct aeration process	28
RIIPBE202A	Conduct digestion process	32
RIIPBE203A	Conduct precipitation operations	32
RIIPBE204A	Conduct reduction process	32
RIIPBE205B	Conduct roasting operations	32
RIIPBE301A	Conduct calcinations activities	26
RIIPBE302A	Conduct bacterial oxidation	32
RIIPBE303B	Conduct filtering process	26
RIIPBE304B	Conduct heavy media separation	32
RIIPBE305A	Conduct high tension separation	28
RIIPBE306A	Conduct leaching process	32
RIIPBE307A	Conduct pressure oxidation	32
RIIPBE308B	Conduct thickening and clarifying process	24
RIIPBE309B	Conduct wet gravity separation	28
RIIPBE310B	Conduct flotation process	38
RIIPBE311B	Conduct magnetic separation	28
RIIPBP202A	Conduct air cleaning activities	32
RIIPBP301A	Process lime products	32
RIIPBP302A	Control operations in acid plant	40
RIIPEO201B	Conduct conveyor operations	40
RIIPEO202A	Provide deck support for conveyor-car high wall mining operations	40
RIIPEO203B	Conduct stacker operations	30
RIIPEO204A	Conduct shore side mooring operations	30
RIIPEO205A	Conduct ship loading operations	30
RIIPEO206A	Lay and recover cables and hoses	20
RIIPEO207A	Coordinate conveyor system shift	20
RIIPEO208A	Extend, retract and maintain conveyor componentry	20
RIIPEO301A	Conduct conveyor-car high wall mining operations	40
RIIPEO302	Operate and monitor ore car dumpers	40
RIIPGP201A	Conduct pump operations	16
RIIPGP202A	Handle reagents	28
RIIPGP203A	Operate compressors	24
RIIPGP204A	Carry out bore-field operations	30
RIIPGP205A	Handle, store and use cyanide	30
RIIPGP301A	Conduct drying activities	26
RIIPGP302A	Monitor and operate auxiliary plant and equipment	40
RIIPHA201A	Operate raw material feed systems	20
RIIPHA301A	Conduct milling/grinding	32
RIIPHA302A	Operate and monitor filter processes	24

Unit Code	Unit Title	Nominal Hours
RIIPHA303A	Operate agglomeration circuit	32
RIIPRE201A	Conduct solvent extraction	36
RIIPRE202A	Prepare and carry out electrolytic cleaning process	26
RIIPRE203A	Prepare for sintering activities	14
RIIPRE204A	Sinter materials	14
RIIPRE301A	Conduct electrowinning/electrorefining operations	36
RIIPRE302A	Conduct elution processes	32
RIIPRE303A	Conduct gold room operations	40
RIIPRE304A	Monitor casting quality	24
RIIPRM501A	Implement, monitor, rectify and report on contracts	80
RIIPRO201A	Conduct crushing operations	30
RIIPRO202A	Conduct screening and conveying operations	30
RIIPRO203A	Operate programmable logic control systems	30
RIIPRO204A	Bulk package and store product	20
RIIPRO205A	Conduct blending plant operations	30
RIIPRO301C	Conduct crushing and screening plant operations	50
RIIPRO302A	Perform process control room operations	50
RIIPRO303A	Conduct sand wash plant operations	30
RIIPRO401A	Supervise processing operations	60
RIIPRO402A	Supervise recycled materials operations	40
RIIPRO501A	Implement site processing plant operations	40
RIIPRO502A	Develop, implement and maintain process control systems	40
RIIPRO601A	Design processing plant	150
RIIPSM201A	Tap furnaces	24
RIIPSM202A	Prepare for pelletising activities	14
RIIPSM203A	Produce pellets	14
RIIPSM301A	Cast a blast furnace	34
RIIPSM302A	Cast ingots	20
RIIPSM303A	Operate a blast furnace	52
RIIPSM304A	Operate furnaces	32
RIIPSM305A	Operate converters	32
RIIPSM306A	Supply molten metal and additives to furnaces	28
RIIPSM307A	Control molten metal in holding furnace/vessel	32
RIIPSM308A	Monitor and maintain furnace gas efficiency	32
RIIPSM309A	Monitor and maintain flue gas efficiency	32
RIIQUA201A	Maintain and monitor site quality standards	20
RIIQUA401A	Apply a quality management system on site	60
RIIQUA501A	Implement, monitor and develop quality management plans	100
RIIQUA601A	Establish and maintain a quality system	100
RIIRAI401A	Apply and monitor mine services and infrastructure systems	60
RIIRAI402A	Apply and monitor site plant and resource management plan	60
RIIRAI501B	Implement mine transport systems and production equipment	60

Unit Code	Unit Title	Nominal Hours
RIIRAI502A	Implement site plant and resource management plan	70
RIIRAI503B	Implement site services and infrastructure systems	70
RIIRAI504A	Select and install surface plant and equipment	70
RIIRAI505A	Implement the surface mine mechanical plant management plan	100
RIIRAI506A	Implement, monitor, rectify and report on inventory control system	80
RIIRAI507A	Implement the underground coal mine mechanical plant management plan	80
RIIRAI508A	Implement mine services systems	80
RIIRAI509A	Implement mine fixed plant and infrastructure systems	80
RIIRAI510A	Implement, monitor, rectify and report on interfaces between electrical and mechanical componentry	80
RIIRAI601A	Establish and maintain the site infrastructure and fixed plant systems	120
RIIRAI602A	Establish and maintain mine mechanical plant, services and infrastructure systems	120
RIIRAI603A	Establish and maintain mine transport systems and production equipment	80
RIIRAI604A	Establish and maintain mine services and infrastructure systems	80
RIIRAI605A	Establish and maintain an underground mine mechanical plant management system	100
RIIRAI606A	Establish and maintain mine closure management systems	120
RIIRAI607A	Establish quarry operations	100
RIIRAI608A	Establish quarry development	180
RIIRAI609A	Establish and maintain electrical installations, reticulation and protection system	120
RIIRAI610A	Establish and maintain mechanical standard and engineering practices for transport and production equipment	120
RIIRAI611A	Establish and maintain a surface mine mechanical plant management system	100
RIIRAI612A	Establish and maintain underground product haulage and transport systems	120
RIIRIS201B	Conduct local risk control	20
RIIRIS301B	Apply risk management processes	40
RIIRIS401A	Apply site risk management system	40
RIIRIS402A	Carry out the risk management processes	60
RIIRIS501A	Implement and maintain management system to control risk	80
RIIRIS601A	Establish and maintain the risk management system	100
RIISAM201A	Handle resources and infrastructure materials and safely dispose of non toxic materials	16
RIISAM202A	Isolate and access plant	30
RIISAM203B	Use hand and power tools	80
RIISAM204B	Operate small plant and equipment	20
RIISAM205A	Cut, weld and bend materials	40
RIISAM207A	Apply operational maintenance skills	40
RIISAM208A	Perform plant operational maintenance	50
RIISAM209A	Carry out operational maintenance	40
RIISAM210A	Remove and fit wheel assemblies	40
RIISAM211B	Remove, repair and refit tyres and tubes	40
RIISAM212A	Service mine plant and equipment	40

Unit Code	Unit Title	Nominal Hours
RIISAM213A	Position and set up mobile lighting	10
RIISAM214A	Provide support to electrical tradesperson	40
RIISAM215A	Carry out drilling industry operational maintenance	40
RIISAM301A	Test operational functions of vehicles and equipment	30
RIISAM302A	Service and handover plant and machines	30
RIISAM303A	Shut down dredge for operator maintenance	40
RIISAM304A	Install, commission and maintain major conveyor equipment and systems	80
RIISAM305A	Repair and splice conveyor belting	40
RIISAM306A	Service and maintain conveyors, feeders and hoppers	40
RIISAM307A	Service and maintain crushers	40
RIISAM308A	Service and maintain screens	40
RIISAM309A	Service and maintain pumps	40
RIISAM310A	Install and commission plant, machinery and services	40
RIISAM311A	Maintain winder equipment	40
RIISAM312A	Inspect and maintain shafts and structures	24
RIISAM313A	Monitor, inspect and service ropes and attachments	32
RIISAM314A	Manage oil and gas drilling equipment maintenance	40
RIISAM401A	Apply site plant, equipment and infrastructure maintenance management plan	40
RIISAM402A	Supervise operation of electrical equipment and installations	40
RIISAM403A	Commission/recommission plant	66
RIISAM501A	Implement and maintain the site plant, equipment and infrastructure maintenance plan	60
RIISAM502B	Manage general drilling equipment maintenance	60
RIISAM601A	Establish and maintain plant, equipment and infrastructure maintenance system	120
RIISAM602A	Establish and maintain maintenance management system for mechanical plant and equipment	120
RIISDM501A	Conduct mine surveying operations	80
RIISRM301B	Blend stockpile materials	20
RIISRM302B	Conduct stockpile reclaiming operations	40
RIISRM303B	Move and position materials to form stockpiles	24
RIISRM304B	Maintain stockpiles	20
RIISRM401A	Apply and monitor the site stockpile management plan	60
RIISRM501A	Implement the stockpile management plan	60
RIISRM502A	Design stockpile formations and reclaiming systems	40
RIISRM601A	Establish and maintain the stockpile management system	120
RIISTD201A	Read and interpret maps	40
RIISTD202A	Collect routine site samples	40
RIISTD301A	Take environmental samples and measurements	120
RIISTD302A	Process data and maintain accurate records	40
RIIUMM201A	Install ground support	30
RIIUMM202A	Install and maintain vent	24
RIIUMM203A	Prepare and perform manual scaling operations	14

Unit Code	Unit Title	Nominal Hours
RIIUMM301A	Conduct wet filling activities	16
RIIUMM302A	Install sets	32
RIIUMM303A	Conduct hand held mining	40
RIIUMM304A	Construct and maintain underground roads	40
RIIUMM305A	Install and remove a secondary fan	16
RIIUMM306A	Conduct mechanical scaling	22
RIIUMM307A	Maintain underground stockpiles	24
RIIUND201A	Install, maintain and recover reticulation systems.	24
RIIUND202A	Operate from elevated work platform underground	30
RIIUND204A	Refuel vehicles/machines underground	32
RIIUND205A	Respond to a workforce incident	32
RIIUND206A	Install hand held underground ground support	20
RIIUND207A	Conduct underground lifting operations	40
RIIUND208A	Conduct skip operations	24
RIIUND209A	Operate automated winder	24
RIIUND301A	Operate manual winder	32
RIIUND302A	Conduct cage operations	32
RIIUND303A	Operate winder for shaft sinking	32
RIIUND304A	Recover equipment	30
RIIUND305A	Recover underground equipment	40
RIIUND306A	Conduct line of sight remote operations	28
RIIUND307A	Conduct tele-remote operations	28
RIIUND308A	Conduct control room operations	40
RIIUND309A	Conduct mechanical underground ground support drilling and installation	40
RIIUND310	Apply shot-crete underground	40
RIIUND401B	Apply and monitor the ventilation management plan	60
RIIUND501A	Implement the ventilation management plan	70
RIIUND601A	Establish and maintain the ventilation management system	120
RIIUND602A	Establish and maintain mine services systems	120
RIIUND603A	Manage, operate and maintain the mine ventilation system	60
RIIVEH201B	Operate light vehicle	30
RIIVEH202A	Operate a medium vehicle	30
RIIVEH203B	Operate light vehicle underground	40
RIIVEH301A	Conduct rail haulage operations	40
RIIVEH302A	Operate multi-combination vehicle	40
RIIVEH303A	Drive heavy combination vehicle	40
RIIVEH304B	Conduct tip truck operations	60
RIIVEH305A	Operate and maintain a four wheel drive vehicle	40
RIIVEH306A	Operate mine service vehicle	20
RIIVEH307A	Operate heavy rigid vehicle	40
RIIWBP201A	Treat and dispose of rejects and tailings	30
RIIWBP202A	Distribute tailings	16

Unit Code	Unit Title	Nominal Hours
RIIWPB203B	Monitor tailings dam environment	16
RIIWPB401A	Apply and monitor site waste and by-products management plan	60
RIIWPB501A	Implement site waste and by-product management plan	70
RIIWPB502A	Plan and monitor recycled material operations	40
RIIWPB601A	Establish and maintain waste and by-product management system	120
RIIWMB201A	Conduct dewatering activities in surface operations	30
RIIWMB202A	Conduct dewatering operations in underground mining operations	30
RIIWMB203A	Drain and dewater civil construction site	20
RIIWMB301A	Control construction site water table	24
RIIWMB302A	Reclaim and treat water	20
RIIWMB401A	Apply and monitor the site water management plan	60
RIIWMB402A	Monitor and coordinate waste and process water treatment	40
RIIWMB501A	Implement the site water management plan	70
RIIWMB601A	Establish and maintain water management system	120
RIIWPB203B	Monitor tailings dam environment	16
RIIWPB401A	Apply and monitor site waste and by-products management plan	60
RIIWPB501A	Implement site waste and by-product management plan	70
RIIWPB502A	Plan and monitor recycled material operations	40
RIIWPB601A	Establish and maintain waste and by-product management system	120
RIIWMB201A	Conduct dewatering activities in surface operations	30
RIIWMB202A	Conduct dewatering operations in underground mining operations	30
RIIWMB203A	Drain and dewater civil construction site	20
RIIWMB301A	Control construction site water table	24
RIIWMB302A	Reclaim and treat water	20
RIIWMB401A	Apply and monitor the site water management plan	60
RIIWMB402A	Monitor and coordinate waste and process water treatment	40
RIIWMB501A	Implement the site water management plan	70
RIIWMB601A	Establish and maintain water management system	120
RIIWPB203B	Monitor tailings dam environment	16
RIIWPB401A	Apply and monitor site waste and by-products management plan	60
RIIWPB501A	Implement site waste and by-product management plan	70
RIIWPB502A	Plan and monitor recycled material operations	40
RIIWPB601A	Establish and maintain waste and by-product management system	120

SAMPLE TRAINING PROGRAMS

A range of Sample Training Plans have been provided to demonstrate the flexibility of qualifications contained in the **Code RII09 Resources and Infrastructure Training Package**, but are by no means mandatory.

Occupation / Work Function	Resources and Infrastructure work preparation	
Qualification Title	Certificate I in Resources and Infrastructure Operations	
Qualification Code	RII10109	
Description	For people entering the resources and infrastructure industry. It allows individuals to develop basic skills and knowledge to prepare for work. They may undertake a range of simple tasks under close supervision. The range of technical skills and knowledge is limited.	
Notes	This training program is a sample only. For advice on how to choose electives others than those listed below, please refer to the RII09 Resources and Infrastructure Training Package and its Qualifications Packaging Rules or contact the CMM Building & Construction, Furnishing and Water on (03) 9564 1987.	
Unit Code	Unit Title	Hours
Core		
RIICOM201A	Communicate in the workplace	20
RIIOHS201A	Work safely and follow OHS policies and procedures	20
Electives		
BSBSUS201A	Participate in environmentally sustainable work practices	20
RIIQUA201A	Maintain and monitor site quality standards	20
RIISAM203B	Use hand and power tools	80
RIISAM204B	Operate small plant and equipment	20
Total hours		180

Occupation / Work Function	Resources and Infrastructure work trainee	
Qualification Title	Certificate II in Resources and Infrastructure Work Preparation	
Qualification Code	RII20109	
Description	This qualification reflects the roles of individuals who perform mainly routine tasks and procedures, using limited practical skills and fundamental operational knowledge, and taking some responsibility for the quality of the work outcomes.	
Notes	This training program is a sample only. For advice on how to choose electives others than those listed below, please refer to the RII09 Resources and Infrastructure Training Package and its Qualifications Packaging Rules or contact the CMM Building & Construction, Furnishing and Water on (03) 9564 1987.	
Unit Code	Unit Title	Hours
Core		
RIIOHS201A	Work safely and follow OHS policies and procedures	20
RIIRIS201B	Conduct local risk control	20
Electives		
RIICCM201A	Carry out measurements and calculations	20
RIISAM203B	Use hand and power tools	80
RIISAM205A	Cut, weld and bend materials	40
RIISAM207A	Apply operational maintenance skills	40
HLTFA301B	Apply first aid	18
RIICCM203A	Read and interpret plans and specifications	40
Total hours		278

Occupation / Work Function	Mining Exploration Assistant	
Qualification Title	Certificate II in Mining Field/Exploration Operations	
Qualification Code	RII20609	
Description	For people working in a mining exploration team or work as a pit technician, who undertakes a prescribed range of functions involving known routines and procedures and who takes some responsibility for the quality of work outcomes.	
Notes	This training program is a sample only. For advice on how to choose electives others than those listed below, please refer to the RII09 Resources and Infrastructure Training Package and its Qualifications Packaging Rules or contact the CMM Engineering Industries on (03) 9286 9934	
Unit Code	Unit Title	Hours
Core		
HLTFA301B	Apply first aid	18
RIICOM201A	Communicate in the workplace	20
RIIEGS201A	Operate in isolated and remote situations	40
RIIEGS202B	Conduct field work	40
RIIENV201A	Identify and assess environmental and heritage concerns	20
RIIOHS201A	Work safely and follow OHS policies and procedures	20
RIIQUA201A	Maintain and monitor site quality standards	20
RIIRIS201B	Conduct local risk control	20
RIISTD202A	Collect routine site samples	40
RIIVEH305A	Operate and maintain a four wheel drive vehicle	40
Electives		
RIIEGS304A	Mobilise equipment and materials	40
RIIEGS301A	Operate and maintain instruments and field equipment	40
RIIEGS305B	Navigate in remote or trackless areas	40
HLTFA402B	Apply advanced first aid	30
Total hours		428

Occupation / Work Function	Production Operator	
Qualification Title	Certificate III in Surface Extraction Operations	
Qualification Code	RII30112	
Description	For people such as production operators in an open cut mine or quarry, 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	
Notes	This training program is a sample only. For advice on how to choose electives others than those listed below, please refer to the RII09 Resources and Infrastructure Training Package and its Qualifications Packaging Rules or contact the CMM Engineering Industries on (03) 9286 9934.	
Unit Code	Unit Title	Hours
Core		
BSBCMN311B	Maintain workplace safety	40
RIIENV201A	Identify and assess environmental and heritage concerns	20
RIIRIS301B	Apply risk management processes	40
RIICOM301B	Communicate information	20
RIIQUA201A	Maintain and monitor site quality standards	20
Electives		
RIIBHD301A	Conduct surface blast hole drilling operations	60
RIIBHD304B	Set up and prepare for open-cut drilling operations	40
RIIBLA301A	Conduct surface shotfiring operations	50
RIIMEX302B	Assess ground conditions	20
RIIMPO301C	Conduct hydraulic excavator operations	40
RIIMPO306A	Operate plant/machinery on live stockpiles	24
RIIMPO310A	Conduct grader operations	40
TLID2022A	Conduct weighbridge operations	20
Total hours		434

Occupation / Work Function	Quarry supervisor	
Qualification Title	Certificate IV in Surface Extraction Operations	
Qualification Code	RII40109	
Description	People such as a supervisor or team leader working in an open cut mine or quarry. They perform tasks involving a broad range of varied activities most of which are complex and non-routine. They are responsible for the quantity and quality of the output of others, contribute to the development of technical solutions to non-routine problems and apply safety management plans to the workplace	
Notes	This training program is a sample only. For advice on how to choose electives others than those listed below, please refer to the RII09 Resources and Infrastructure Training Package and its Qualifications Packaging Rules or contact the CMM Engineering Industries on (03) 9286 9934.	
Unit Code	Unit Title	Hours
Core		
BSBSUS301A	Implement and monitor environmentally sustainable work practices	40
RIICOM301B	Communicate information	20
RIIGOV401B	Apply, monitor and report on compliance systems	80
RIIRIS401A	Apply site risk management system	40
BSBOHS407A	Monitor a safe workplace	50
Electives		
RIIBLA401A	Manage blasting operations	40
RIIBHD401A	Supervise blast hole drilling operations	40
RIIMPO401A	Supervise mobile plant operations	40
RIIPRO401A	Supervise processing operations	60
RIIRAI402A	Apply and monitor site plant and resource management plan	60
RIIBLA402A	Monitor and control the effects of blasting on the environment	40
RIIOHS301A	Conduct safety and health investigations	30
RIISAM401A	Apply site plant, equipment and infrastructure maintenance management plan	40
Total hours		580

Occupation / Work Function	Processing Manager	
Qualification Title	Diploma of Minerals Processing	
Qualification Code	RII50309	
Description	This qualification reflects the role of metal or coal processing facility managers who perform tasks involving a high level of autonomy and requiring the application of significant judgement in planning and determining the selection of equipment/roles/techniques for themselves and others. They are required to demonstrate the application of a broad range of technical, managerial, coordination and planning and implement mine management plans.	
Notes	This training program is a sample only. For advice on how to choose electives others than those listed below, please refer to the RII09 Resources and Infrastructure Training Package and its Qualifications Packaging Rules or contact the CMM Engineering Industries on (03) 9286 9934.	
Unit Code	Unit Title	Hours
Core		
BSBCUS501A	Manage quality customer service	40
BSBMGT516A	Facilitate continuous improvement	60
RIICOM301B	Communicate information	20
RIIENV501A	Implement and maintain environmental management plan	120
RIIERR503A	Implement emergency preparedness and response systems	70
RIIGOV501A	Identify, implement and maintain legal compliance requirements	80
RIIRIS402A	Carry out the risk management processes	60
RIIWMG501A	Implement the site water management plan	70
Electives		
BSBINM501A	Manage an information or knowledge management system	50
BSBMGT515A	Manage operational plan	60
BSBOHS509A	Ensure a safe workplace	60
RIIENV502A	Undertake process or project environmental impact assessment	120
RIIPRO502A	Develop, implement and maintain process control systems	40
RIIRAI501B	Implement mine transport systems and production equipment	60
RIIRAI503B	Implement site services and infrastructure systems	70
RIIWBP502A	Plan and monitor recycled material operations	40
Total hours		1020

Occupation / Work Function	Quarry Manager	
Qualification Title	Advanced Diploma of Extractive Industries Management	
Qualification Code	RII60209	
Description	Personnel working in a quarry or other extractive industries operations who perform tasks that are broad, specialised, complex and technical and include strategic areas and initiating activities. They are responsible for the establishment of the site management systems, plans and policies and are required to demonstrate self-directed application of theoretical and technical knowledge and initiate solutions to technical problems or management requirements.	
Notes	This training program is a sample only. For advice on how to choose electives others than those listed below, please refer to the RII09 Resources and Infrastructure Training Package and its Qualifications Packaging Rules or contact the CMM Engineering Industries on (03) 9286 9934.	
Unit Code	Unit Title	Hours
Electives		
BSBINM601A	Manage knowledge and information	80
BSBMGT605B	Provide leadership across the organisation	60
BSBMGT617A	Develop and implement a business plan	60
RIIBEF601A	Conduct business negotiations	100
RIIBEF604A	Conduct feasibility study	100
RIIENV601A	Establish and maintain the environmental management system	100
RIIGOV601A	Establish, maintain and develop a statutory compliance management system	120
RIIOHS601A	Establish and maintain the OHS management system	120
RIIQUA601A	Establish and maintain a quality system	100
RIIRIS601A	Establish and maintain the risk management system	100
RIISAM601A	Establish and maintain plant, equipment and infrastructure maintenance system	120
RIISRM601A	Establish and maintain the stockpile management system	120
RIIWBP601A	Establish and maintain waste and by-product management system	120
RIIWMG601A	Establish and maintain water management system	120
Total hours		1420

Occupation / Work Function	Civil construction trainee	
Qualification Title	Certificate II in Civil Construction	
Qualification Code	RII20712	
Description	This qualification reflects the role of individuals working in an operational role in civil construction, who undertake a prescribed range of tasks using limited practical skills and fundamental knowledge, in a defined context working under supervision.	
Notes	This training program is a sample only. For advice on how to choose electives others than those listed below, please refer to the RII09 Resources and Infrastructure Training Package and its Qualifications Packaging Rules or contact the CMM Building & Construction, Furnishing and Water on (03) 9564 1987	
Unit Code	Unit Title	Hours
Core		
RIIBEF201B	Plan and organise work	20
RIICCM201A	Carry out measurements and calculations	20
RIICCM202A	Identify, locate and protect underground services	30
RIICCM203A	Read and interpret plans and specifications	40
RIICCM205A	Carry out manual excavation	8
RIICCM207A	Spread and compact materials manually	12
RIICOM201A	Communicate in the workplace	20
RIIOHS201A	Work safely and follow OHS policies and procedures	20
RIISAM203B	Use hand and power tools	80
RIISAM204B	Operate small plant and equipment	20
Electives		
RIICCM208A	Carry out basic levelling	8
RIICCM210A	Install trench support	16
RIIOHS205A	Control traffic with stop-slow bat	20
RIICCM209A	Carry out concrete work	40
RIICRC208A	Lay pipes	40
RIIOHS302A	Implement traffic management plan	20
Total Hours		414

Occupation / Work Function	Civil Construction trainee	
Qualification Title	Certificate II in Bituminous Surfacing	
Qualification Code	RII20809	
Description	This qualification reflects the role of individuals working in bituminous surfacing in the civil construction industry, performing routine tasks using practical skills and fundamental operational knowledge in a defined context, working under direct supervision.	
Notes	This training program is a sample only. For advice on how to choose electives others than those listed below, please refer to the RII09 Resources and Infrastructure Training Package and its Qualifications Packaging Rules or contact the CMM Building & Construction, Furnishing and Water on (03) 9564 1987.	
Unit Code	Unit Title	Hours
Core		
RIICBS201A	Conduct tack coat spraying operations	20
RIICBS203A	Safely handle bituminous materials	18
RIICCM201A	Carry out measurements and calculations	20
RIICCM203A	Read and interpret plans and specifications	40
RIICCM207A	Spread and compact materials manually	12
RIICOM201A	Communicate in the workplace	20
RIIOHS201A	Work safely and follow OHS policies and procedures	20
RIISAM201A	Handle resources and infrastructure materials and safely dispose of non toxic materials	16
RIISAM203B	Use hand and power tools	80
RIISAM204B	Operate small plant and equipment	20
Electives		
RIIBEF201B	Plan and organise work	20
RIICBS202A	Hand spread asphalt	18
RIICBS206A	Conduct pavement sweeping operations	18
RIICBS207A	Take samples of materials used in road surfacing	10
RIICBS302A	Conduct paver screeding operations	58
RIIOHS205A	Control traffic with stop-slow bat	20
Total hours		410

Occupation/ Work Function	Civil Construction general worker	
Qualification Title	Certificate III in Civil Construction	
Qualification Code	RII30912	
Description	This qualification reflects the role of a skilled operator working in civil construction, who applies a broad range of skills in a varied work context, using some discretion and judgement and relevant theoretical knowledge. This sample program is designed for a person working in general occupations in civil construction.	
Notes	This training program is a sample only. For advice on how to choose electives others than those listed below, please refer to the RII09 Resources and Infrastructure Training Package and its Qualifications Packaging Rules or contact the CMM Building & Construction, Furnishing and Water on (03) 9564 1987.	
Unit Code	Unit Title	Hours
Core		
RIIBEF201B	Plan and organise work	20
RIICCM201A	Carry out measurements and calculations	20
RIICCM203A	Read and interpret plans and specifications	40
RIICOM201A	Communicate in the workplace	20
RIIOHS201A	Work safely and follow OHS policies and procedures	20
RIISAM203B	Use hand and power tools	80
RIISAM204B	Operate small plant and equipment	20
Electives		
RIICCM210A	Install trench support	16
RIICRC301A	Maintain drainage systems	16
RIIHAN308A	Load and unload plant	20
RIIOHS205A	Control traffic with stop-slow bat	20
RIIOHS302A	Implement traffic management plan	20
RIICCM202A	Identify, locate and protect underground services	30
RIIWMG301A	Control construction site water table	24
RIICCM211A	Erect and dismantle temporary fencing and gates	40
RIICPL302A	Install storm water systems	40
RIICRC208A	Lay pipes	40
RIIHAN307A	Operate a vehicle loading crane	40
RIICRC306A	Conduct earthworks	80
RIIMPO318B	Conduct civil construction skid steer loader operations	80
CPCCLDG3001A	Licence to perform dogging	80
CPCCLRG3001A	Licence to perform rigging basic level	196
RIIMPO319A	Conduct backhoe/loader operations	200
RIIMPO320A	Conduct civil construction excavator operations	200
RIICRC315	Use concreting materials and equipment	60
Total hours		1422

Occupation/ Work Function	Bituminous surfacing worker	
Qualification Title	Certificate III in Civil Construction	
Qualification Code	RII30912	
Description	This qualification reflects the role of a skilled operator working in civil construction, who applies a broad range of skills in a varied work context, using some discretion and judgement and relevant theoretical knowledge. This sample program is designed for a person working in the bituminous surfacing sector of civil construction.	
Notes	This training program is a sample only. For advice on how to choose electives others than those listed below, please refer to the RII09 Resources and Infrastructure Training Package and its Qualifications Packaging Rules or contact the CMM Building & Construction, Furnishing and Water on (03) 9564 1987.	
Unit Code	Unit Title	Hours
Core		
RIIBEF201B	Plan and organise work	20
RIICCM201A	Carry out measurements and calculations	20
RIICCM203A	Read and interpret plans and specifications	40
RIICOM201A	Communicate in the workplace	20
RIIOHS201A	Work safely and follow OHS policies and procedures	20
RIISAM203B	Use hand and power tools	80
RIISAM204B	Operate small plant and equipment	20
Specialist Core		
RIICBS202A	Hand spread asphalt	18
RIICBS203A	Safely handle bituminous materials	18
RIICBS207A	Take samples of materials used in road surfacing	10
RIICCM207A	Spread and compact materials manually	12
RIIOHS302A	Implement traffic management plan	20
RIIIMG301A	Maintain site records	10
RIISAM201A	Handle resources and infrastructure materials and safely dispose of non toxic materials	16
Electives		
RIICBS201A	Conduct tack coat spraying operations	20
RIICBS206A	Conduct pavement sweeping operations	18
RIICBS208A	Conduct road maintenance operations	36
RIICBS302A	Conduct paver screeding operations	58
RIICBS303A	Conduct materials transfer vehicle operations	56
RIICBS304A	Compact asphalt with rollers	44
RIICBS305A	Conduct asphalt paver operations	52
RIICBS307A	Conduct bitumen sprayer operations	100
RIICBS310A	Conduct patching operations	60
RIICCM205A	Carry out manual excavation	8
RIICBS304A	Compact asphalt with rollers	44
Total hours		820

Occupation / Work Function	Bridge Construction and maintenance worker	
Qualification Title	Certificate III in Civil Construction	
Qualification Code	RII30912	
Description	This qualification reflects the role of a skilled operator working in civil construction, who applies a broad range of skills in a varied work context, using some discretion and judgement and relevant theoretical knowledge. This sample program is designed for a person working in the bridge construction and maintenance sector of civil construction.	
Notes	This training program is a sample only. For advice on how to choose electives others than those listed below, please refer to the RII09 Resources and Infrastructure Training Package and its Qualifications Packaging Rules or contact the CMM Building & Construction, Furnishing and Water on (03) 9564 1987.	
Unit Code	Unit Title	Hours
Core		
RIIBEF201B	Plan and organise work	20
RIICCM201A	Carry out measurements and calculations	20
RIICCM203A	Read and interpret plans and specifications	40
RIICOM201A	Communicate in the workplace	20
RIIOHS201A	Work safely and follow OHS policies and procedures	20
RIISAM203B	Use hand and power tools	80
RIISAM204B	Operate small plant and equipment	20
Specialist Core		
RIICCM202A	Identify, locate and protect underground services	30
RIICCM205A	Carry out manual excavation	8
RIICCM206A	Support plant operations	8
RIICCM207A	Spread and compact materials manually	12
RIICCM208A	Carry out basic levelling	8
RIIOHS302A	Implement traffic management plan	20
RIISAM201A	Handle resources and infrastructure materials and safely dispose of non toxic materials	16
RIIWMG203A	Drain and dewater civil construction site	20
Electives		
CPCCSF2004A	Place and fix reinforcement materials	80
RIICBM301A	Maintain concrete bridges	80
RIICBM302A	Install pre-cast girders	80
RIICBM303A	Install pre-cast parapets	80
RIICBM304A	Operate a bridge inspection unit	80
RIICBM305A	Install pre-cast concrete bridge decks	80
RIICBM306A	Undertake concreting work on concrete bridges	80
RIICBM307A	Construct formwork and false work on concrete bridges	120
RIICCM211A	Erect and dismantle temporary fencing and gates	40
RIIHAN208A	Perform dogging	80
Total hours		1142

Occupation / Work Function	Road construction and maintenance worker	
Qualification Title	Certificate III in Civil Construction	
Qualification Code	RII30912	
Description	<p>This qualification reflects the role of a skilled operator working in civil construction, who applies a broad range of skills in a varied work context, using some discretion and judgement and relevant theoretical knowledge.</p> <p>This sample program is designed for a person working in the road construction and maintenance sector of civil construction.</p>	
Notes	<p>This training program is a sample only. For advice on how to choose electives others than those listed below, please refer to the RII09 Resources and Infrastructure Training Package and its Qualifications Packaging Rules or contact the CMM Building & Construction, Furnishing and Water on (03) 9564 1987.</p>	
Unit Code	Unit Title	Hours
Core		
RIIBEF201B	Plan and organise work	20
RIICCM201A	Carry out measurements and calculations	20
RIICCM203A	Read and interpret plans and specifications	40
RIICOM201A	Communicate in the workplace	20
RIIOHS201A	Work safely and follow OHS policies and procedures	20
RIISAM203B	Use hand and power tools	80
RIISAM204B	Operate small plant and equipment	20
Specialist Core		
RIICCM202A	Identify, locate and protect underground services	30
RIICCM205A	Carry out manual excavation	8
RIICCM206A	Support plant operations	8
RIICCM207A	Spread and compact materials manually	12
RIICCM208A	Carry out basic levelling	8
RIICRC201A	Repair potholes	36
RIIOHS302A	Implement traffic management plan	20
RIISAM201A	Handle resources and infrastructure materials and safely dispose of non toxic materials	16
RIIWMG203A	Drain and dewater civil construction site	20
Electives		
CPCCSF2004A	Place and fix reinforcement materials	80
RIICRC202A	Install signs	16
RIICRC208A	Lay pipes	40
RIICRC306A	Conduct earthworks	80
RIICRC307A	Conduct road pavement construction	24
RIICRC315	Use concreting materials and equipment	60
RIIHAN208A	Perform dogging	80
RIIMPO319A	Conduct backhoe/loader operations	200
RIIMPO320A	Conduct civil construction excavator operations	200
Total hours		1158

Occupation / Work Function	Road marking worker	
Qualification Title	Certificate III in Civil Construction	
Qualification Code	RII30912	
Description	This qualification reflects the role of a skilled operator working in civil construction, who applies a broad range of skills in a varied work context, using some discretion and judgement and relevant theoretical knowledge. This sample program is designed for a person working in the road marking sector of civil construction.	
Notes	This training program is a sample only. For advice on how to choose electives others than those listed below, please refer to the RII09 Resources and Infrastructure Training Package and its Qualifications Packaging Rules or contact the CMM Building & Construction, Furnishing and Water on (03) 9564 1987.	
Unit Code	Unit Title	Hours
Core		
RIIBEF201B	Plan and organise work	20
RIICCM201A	Carry out measurements and calculations	20
RIICCM203A	Read and interpret plans and specifications	40
RIICOM201A	Communicate in the workplace	20
RIIOHS201A	Work safely and follow OHS policies and procedures	20
RIISAM203B	Use hand and power tools	80
RIISAM204B	Operate small plant and equipment	20
Specialist Core		
RIICRM202A	Handle and store road marking materials	8
RIICRM204A	Prepare surface for road marking	16
RIIOHS302A	Implement traffic management plan	20
RIISAM201A	Handle resources and infrastructure materials and safely dispose of non toxic materials	16
Electives		
RIICRC202A	Install signs	16
RIICRM201A	Escort mobile road marking operations	24
RIICRM203A	Conduct pedestrian road marking operations	24
RIICRM205A	Conduct road marking measuring operations	16
RIICRM206A	Conduct airless and atomised spraying operations	20
RIICRM207A	Install raised pavement markers	16
RIICRM301A	Conduct ride on road marking operations	16
RIICRM302A	Conduct long line road marking operations	40
RIICRM303A	Conduct thermo plastic road marking operations	30
RIIIMG301A	Maintain site records	10
RIIOHS205A	Control traffic with stop-slow bat	20
Total hours		512

Occupation / Work Function	Tunnel construction worker	
Qualification Title	Certificate III in Civil Construction	
Qualification Code	RII30912	
Description	This qualification reflects the role of a skilled operator working in civil construction, who applies a broad range of skills in a varied work context, using some discretion and judgement and relevant theoretical knowledge. This sample program is designed for a person working in the tunnel construction sector of civil construction.	
Notes	This training program is a sample only. For advice on how to choose electives others than those listed below, please refer to the RII09 Resources and Infrastructure Training Package and its Qualifications Packaging Rules or contact the CMM Building & Construction, Furnishing and Water on (03) 9564 1987.	
Unit Code	Unit Title	Hours
Core		
RIIBEF201B	Plan and organise work	20
RIICCM201A	Carry out measurements and calculations	20
RIICCM203A	Read and interpret plans and specifications	40
RIICOM201A	Communicate in the workplace	20
RIIOHS201A	Work safely and follow OHS policies and procedures	20
RIISAM203B	Use hand and power tools	80
RIISAM204B	Operate small plant and equipment	20
Specialist Core		
RIICCM202A	Identify, locate and protect underground services	30
RIICCM205A	Carry out manual excavation	8
RIICCM206A	Support plant operations	8
RIICCM207A	Spread and compact materials manually	12
RIICCM208A	Carry out basic levelling	8
RIICRC203A	Install sub-soil drainage	20
RIISAM201A	Handle resources and infrastructure materials and safely dispose of non toxic materials	16
RIIWMG203A	Drain and dewater civil construction site	20
Electives		
RIICFW302A	Install temporary and permanent rock anchors	24
RIICFW303A	Install primary ground support	24
RIICRC301A	Maintain drainage systems	16
RIICTC301A	Install tunnelling constructions services	80
RIICTC302A	Line tunnel	80
RIICTC303A	Excavate tunnel by machine	32
RIICTC304A	Muck out tunnel earthworks	16
RIICTC305A	Construct portals	24
RIIOHS202A	Enter and work in confined spaces	30
RIIUND310	Apply shot-crete	40
Total hours		708

Occupation / Work Function	Supervisor in civil construction	
Qualification Title	Certificate IV in Civil Construction	
Qualification Code	RII40712	
Description	This qualification reflects the role of employees working in supervisory positions in civil construction. They perform tasks involving a broad range of varied activities most of which are complex and non-routine. They are responsible for the quantity and quality of the output of others, contribute to the development of technical solutions to non-routine problems and apply management plans to the workplace.	
Notes	This training program is a sample only. For advice on how to choose electives others than those listed below, please refer to the RII09 Resources and Infrastructure Training Package and its Qualifications Packaging Rules or contact the CMM Building & Construction, Furnishing and Water on (03) 9564 1987.	
Unit code	Unit title	Hours
Core		
BSBMGT401A	Show leadership in the workplace	50
BSBMGT402A	Implement operational plan	40
BSBOHS407A	Monitor a safe workplace	50
RIIRIS401A	Apply site risk management system	40
Electives		
RIIENV401A	Supervise dust and noise control	40
RIISAM401A	Apply site plant, equipment and infrastructure management plan	40
RIICWD503A	Prepare work zone traffic management plan	50
BSBPMG510A	Manage projects	60
RIIQUA401A	Apply a quality management system on site	60
RIICWM401B	Supervise civil works	80
RIICWM402A	Supervise civil works contractors	100
MSL974001A	Prepare, standardise and use solutions	100
Total Hours		710

Occupation/ Work Function	Civil construction general worker	
Qualification Title	Certificate III in Civil Construction Plant Operations	
Qualification Code	RII30809	
Description	This qualification reflects the role of a skilled operator working with civil construction plant, who applies a broad range of skills in a varied work context, using some discretion and judgement and relevant theoretical knowledge. The individual may provide theoretical advice and support a team.	
Notes	This training program is a sample only. For advice on how to choose electives others than those listed below, please refer to the RII09 Resources and Infrastructure Training Package and its Qualifications Packaging Rules or contact the CMM Building & Construction, Furnishing and Water on (03) 9564 1987.	
Unit Code	Unit Title	Hours
Core		
RIIBEF201B	Plan and organise work	20
RIICCM201A	Carry out measurements and calculations	20
RIICCM202A	Identify, locate and protect underground services	30
RIICCM203A	Read and interpret plans and specifications	40
RIICCM205A	Carry out manual excavation	8
RIICCM206A	Support plant operations	8
RIICCM207A	Spread and compact materials manually	12
RIICCM208A	Carry out basic levelling	8
RIICOM201A	Communicate in the workplace	20
RIIOHS201A	Work safely and follow OHS policies and procedures	20
RIISAM201A	Handle resources and infrastructure materials and safely dispose of non toxic materials	16
RIISAM203B	Use hand and power tools	80
RIISAM204B	Operate small plant and equipment	20
RIIWMG203A	Drain and dewater civil construction site	20
Electives		
RIIHAN308A	Load and unload plant	20
RIIOHS205A	Control traffic with stop-slow bat	20
RIIMPO320B	Conduct civil construction excavator operations	200
RIIHAN309A	Conduct telescopic materials handler operations	80
RIIMPO315A	Conduct tractor operations	60
Total hours		702

Occupation/ Work Function	Supervisor of sub-contractors undertaking road maintenance	
Qualification Title	Certificate IV in Civil Construction Supervision	
Qualification Code	RII40712	
Description	This qualification reflects the role of employees working in supervisory positions in civil construction. They perform tasks involving a broad range of varied activities most of which are complex and non-routine. They are responsible for the quantity and quality of the output of others, contribute to the development of technical solutions to non-routine problems and apply management plans to the workplace.	
Notes	This training program is a sample only. For advice on how to choose electives others than those listed below, please refer to the RII09 Resources and Infrastructure Training Package and its Qualifications Packaging Rules or contact the CMM Building & Construction, Furnishing and Water on (03) 9564 1987.	
Unit Code	Unit Title	Hours
Core		
BSBMGT401A	Show leadership in the workplace	50
BSBMGT402A	Implement operational plan	40
BSBOHS407A	Monitor a safe workplace	50
RIICWM401B	Supervise civil works	80
RIIRIS401A	Apply site risk management system	40
Electives		
RIICRC404A	Inspect and report on pavement condition	40
RIICRC405A	Carry out pavement condition measurement	50
RIICWM402A	Supervise civil works contractors	100
BSBSUS301A	Implement and monitor environmentally sustainable work practices	40
BSBWOR404B	Develop work priorities	40
LGACOM401A	Administer contracts	60
RIIOHS302A	Implement traffic management plan	20
Total hours		610

Occupation/ Work Function	Civil construction site manager	
Qualification Title	Diploma of Civil Construction Management	
Qualification Code	RII50409	
Description	The Diploma of Civil Construction Management reflects the role of personnel working on a single or a group of Civil Construction sites, who perform tasks involving a high level of autonomy and require the application of significant judgement in planning and determining the selection of equipment/roles/techniques for themselves and others. They are required to develop site specific work instructions and practices to ensure the implementation of the site management systems, plans and policies. They demonstrate the application of a broad range of technical, managerial, coordination and planning skills.	
Notes	This training program is a sample only. For advice on how to choose electives others than those listed below, please refer to the RII09 Resources and Infrastructure Training Package and its Qualifications Packaging Rules or contact the CMM Building & Construction, Furnishing and Water on (03) 9564 1987	
Unit Code	Unit Title	Hours
Core		
BSBOHS509A	Ensure a safe workplace	60
BSBWOR502A	Ensure team effectiveness	60
RIIENV501A	Implement and maintain environmental management plan	120
RIIQUA501A	Implement, monitor and develop quality management plans	100
RIIRIS501A	Implement and maintain management system to control risk	80
RIICWM501A	Implement civil construction plan	120
Electives		
BSBPMG503A	Manage project time	40
BSBPMG504A	Manage project costs	40
BSBPMG506A	Manage project human resources	40
BSBWOR501A	Manage personal work priorities and professional development	60
RIICWD503A	Prepare work zone traffic management plan	50
RIICWM503A	Prepare civil works cost estimate	100
RIIRAI502A	Implement site plant and resource management plan	70
Total hours		940

Occupation/ Work Function	Civil construction contract manager of multiple projects	
Qualification Title	Advanced Diploma of Civil Construction	
Qualification Code	RII60609	
Description	The Advanced Diploma of Civil Construction reflects the role of managers working in Civil Construction who perform tasks that are broad, specialised, complex and technical and include strategic areas and initiating activities. They are responsible for the establishment of the site management systems, plans and policies and are required to demonstrate self-directed application of theoretical and technical knowledge and initiate solutions to technical problems or management requirements.	
Notes	This training program is a sample only. For advice on how to choose electives others than those listed below, please refer to the RII09 Resources and Infrastructure Training Package and its Qualifications Packaging Rules or contact the CMM Building & Construction, Furnishing and Water on (03) 9564 1987	
Unit Code	Unit Title	Hours
Core		
BSBMGT605B	Provide leadership across the organisation	60
RIIENV601A	Establish and maintain the environmental management system	100
RIIOHS601A	Establish and maintain the OHS management system	120
RIIQUA601A	Establish and maintain a quality system	100
RIIRIS601A	Establish and maintain the risk management system	100
RIICWM601A	Establish civil constructions plans	300
Electives		
BSBPMG601A	Direct the integration of projects	70
BSBPMG604A	Direct cost management of a project program	50
BSBPMG607A	Direct communications management of a project program	40
BSBPMG608A	Direct risk management of a project program	50
BSBPMG609A	Direct procurement and contracting for a project program	50
RIIBEF601A	Conduct business negotiations	100
Total hours		1140

CONTACTS AND LINKS

Industry Skills Council (ISC)		
SkillsDMC National Industry Skills Council	This ISC is responsible for developing this RII09 Resources and Infrastructure Training Package Version 3 and can be contacted for further information. You can also source copies of the Training Package and support material.	(02) 9299-3014 skillsdmc@skillsdmc.com.au http://www.skillsdmc.com.au
National Register for VET in Australia		
Training.gov.au (TGA)	TGA is the Australian governments' official National Register of information on Training Packages, qualifications, courses, units of competency and RTOs.	training.gov.au
Australian Government		
The Department of Industry, Innovation, Science, Research and Tertiary Education (DIISRTE)	DIISRTE provides a range of services and resources to assist in delivery of Training Packages. Search the DIISRTE website for links to a range of relevant resources and publications.	http://www.innovation.gov.au You may also find Department of Education Employment and Workplace Relations website of use. http://www.deewr.gov.au
State Government		
Department of Education and Early Childhood Development Higher Education and Skills Group	Higher Education and Skills Group is responsible for funding and the implementation of Vocational Education and Training (VET) in Victoria, including Apprenticeships and Traineeships.	General information: www.skills.vic.gov.au Approved Training Schemes: http://www.skills.vic.gov.au/corporate/publications/brochures-and-fact-sheets/apprenticeships-and-traineeships-in-victoria-industry-guides
Curriculum Maintenance Manager (CMM)		
Civil Construction Coal, Drilling, Extractive Industries and Metalliferous Mining	The CMM service is provided by Executive Officers located within Victorian TAFE institutes on behalf of Skills Victoria.	Tom Vassallo Holmesglen Institute of TAFE PO Box 42, Chadstone VIC 3148 Phone: (03) 9564-1987 Fax: (03) 9564-1538 Email: Tom.Vassallo@holmesglen.edu.au Web: http://trainingsupport.skills.vic.gov.au/cmminf.cfm Dennis Crowley Box Hill Institute Private Bag 1014, Box Hill VIC 3128 Phone: (03) 9286-9934 Fax: (03) 9286-9838 Email: D.Crowley@boxhill.edu.au Web: http://trainingsupport.skills.vic.gov.au/cmminf.cfm

State VET Regulatory Authority		
Victorian Registration and Qualifications Authority (VRQA)	The VRQA is a statutory authority responsible for the registration of education and training providers in Victoria to ensure the delivery of quality education and training.	www.vrqa.vic.gov.au Phone: 03 9637 2806
National VET Regulatory Authority		
Australian Skills Quality Authority (ASQA)	ASQA is the national regulator for Australia's VET sector vocational education and training sector. ASQA regulates courses and training providers to ensure nationally approved quality standards are met.	www.asqa.gov.au Info line: 1300 701 801
Industry Regulatory Body		
Department of Primary Industry (for shot firing in relation to mines and/or quarries) WorkSafe Victoria (for shot firing in relation to sectors other than mines and/or quarries) Licensing Branch Licensing is compulsory for drilling wells or bores to access water from underground. Victorian Drillers' Licensing Board Secretariat	The industry Regulatory body can provide advice on licensing, legislative or regulatory requirements which may impact on the delivery of training or the issuance of qualifications in this Training Package.	Phone: 13 61 86 Email: customer.service@dpi.vi.gov.au Web: www.dpi.vic.gov.au Phone: 1300 852 562 Web: www.workcover.vic.gov.au Southern Rural Water 88 Johnston Street Maffra VIC. 3860 Phone: (03) 5139-3113 Email: srw@srw.com.au Web: www.srw.com.au
WorkSafe		
WorkSafe Victoria	WorkSafe needs to provide written verification before High Risk Work Units can be added to an RTO's scope of registration.	www.worksafe.vic.gov.au Info line: 1800 136 089

Other contacts		
Australian Drilling Industry Training Committee Ltd	Information on the 'National Water Well Drillers' Licensing System'	PO Box 742 Lane Cove NSW 2066 Phone: (02) 9428-3444 Email: info@adictc.com.au Web: www.aditc.com.com.au
Minerals & Petroleum Regulation Branch	Information to undergo assessment by the ' <i>Quarry Managers' Advisory Panel</i> ' to gain certification as a quarry manager.	PO Box 500 East Melbourne VIC 3002 Phone: (03) 9412-4011
Vic Roads	Information on registering Vic Roads work sites.	Head Office Administration 60 Denmark Street Kew VIC 3101 Phone: (03) 9854-2666 Web: www.vicroads.vic.gov.au
Energy Safe Victoria	Information about staying safe and observing the law when digging near electricity cables.	Level 3 4 Riverside Quay Southbank VIC 3006 Phone: (03) 9203-9700 Dial before you dig contact: 1800 800 158 Web: www.esv.vic.gov.au or www.dialbeforeyoudig.com.au

GLOSSARY

Code	Nationally endorsed Training Package qualification code.
Title	Nationally endorsed Training Package qualification title.
Unit Code	Nationally endorsed Training Package unit code.
Unit Title	Nationally endorsed Training Package unit title.
Nominal Hours	The anticipated hours of supervised learning or training deemed necessary to conduct training and assessment activities associated with the program of study. These hours are determined by the Victorian State Training Authority. Nominal hours may vary for a qualification depending on the units of competency selected.
Scope of Registration	Scope of registration specifies the AQF qualifications and/or units of competency the training organisation is registered to issue and the industry training and/or assessment services it is registered to provide.