**Victorian Purchasing Guide**

**for**

**RII Resources and Infrastructure Industry
Training Package**

**Release 5.0**

**January 2021**

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Victorian Purchasing Guide ⎯ Release History

**Note**: RTOs should refer to the National Register for the detail of changes made in each Release. (See [National Register](https://training.gov.au/Home/Tga) for more information)

| Training Package Release  | **Date VPGApproved** | Comments |
| --- | --- | --- |
| RII Resources and Infrastructure Industry Training PackageRelease 5.0 | 14 January 2021 | This Training Package release includes updates to a number of qualifications, units of competency and skill sets as noted below. * 17 revised equivalent qualifications
* 1 deleted qualification:
* 12 newly created native units of competency
* 27 deleted units of competency
* 216 equivalent units of competency updated to align content with industry skills needs and standards
 |
| RII Resources and Infrastructure Industry Training PackageRelease 4.0 | 26 August 2020 | RII Release 4 contains:* One (1) new qualification

RII41319 Certificate IV in Emergency Response Coordination* Four (4) revised qualifications

RII20819 Certificate II in Bituminous SurfacingRII30719 Certificate III in Emergency Response and RescueRII30919 Certificate III in Civil ConstructionRII31619 Certificate III in Trenchless Technology* Four (4) new units of competency
* Sixty-four (64) revised units of competency

Some components of RII release 4 were updated in release 4.1 and 4.2. These additional changes are reflected in this VPG.* **For nominal hours of superseded units within RII Release 4 please refer to RII VPG Release 3**.
 |
| RII - Resources and Infrastructure Industry Training PackageRelease 3.0 | 21 February 2019  | RII Release 3 contains:* Three (3) revised qualifications
* Fifty-five (55) revised units of competency
* Four (4) units of competence deleted
* Two (2) new units of competency
 |
| RII Resources and Infrastructure Industry Training PackageRelease 2.0 | 5 April 2016 | RII Release 2 contains:* One (1) new qualification

RII21315 Certificate II in Cross Industry Operations* Six (6) new units of competency

Fifty-one (51) revised units of competency |

**RII Resources and Infrastructure Industry Training Package Release 5.0
Victorian Purchasing Guide**

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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 maximum and minimum payable hours available for each qualification.
* Nominal hours for each unit of competency within the Training Package.

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 Qualifications Framework (AQF).

The VRQA is the regulatory authority in Victoria responsible for the registration of Vocational Education and Training (VET) providers who offer courses to domestic students in Victoria only.

ASQA is the regulatory authority responsible for the registration of VET providers who offer training in Victoria, nationally and / or internationally.

Transition

The relationship between new units and any superseded or replaced units from the previous version of **RII Resources and Infrastructure Industry Training Package Release 4.0** is provided in theTraining PackageCompanionVolume Implementation Guide. (See [Companion Volumes](https://vetnet.education.gov.au/Pages/default.aspx) for more information).

Information regarding transition arrangements can be obtained from the state or national VET Regulatory Authority (see Contacts and Links section).

RTOs must ensure that all training and assessment leading to issuance of qualifications or Statements of Attainment from the **RII Resources and Infrastructure Industry Training Package Release 5.0** is conducted against the Training Package units of competency and complies with the assessment requirements.

QUALIFICATIONS

|  |  |  |  |
| --- | --- | --- | --- |
| **Code** | **Title** | **Minimum Payable Hours** | **Maximum Payable Hours** |
| RII10115 | Certificate I in Resources and Infrastructure Operations | 135 | 140 |
| RII20120 | Certificate II in Resources and Infrastructure Work Preparation | 285 | 300 |
| RII20215 | Certificate II in Surface Extraction Operations | 255 | 270 |
| RII20320 | Certificate II in Underground Coal Mining | 305 | 320 |
| RII20415 | Certificate II in Underground Metalliferous Mining | 380 | 420 |
| RII20515 | Certificate II in Resource Processing | 325 | 340 |
| RII20620 | Certificate II in Mining / Field Exploration | 455 | 480 |
| RII20715 | Certificate II in Civil Construction | 495 | 520 |
| RII20819 | Certificate II in Bituminous Surfacing | 357 | 376 |
| RII20920 | Certificate II in Drilling Operations | 375 | 395 |
| RII21015 | Certificate II in Drilling Oil/Gas (Offshore) | 375 | 395 |
| RII21120 | Certificate II in Drilling Oil/Gas (On shore) and Well Servicing | 350 | 370 |
| RII30115 | Certificate III in Surface Extraction Operations | 570 | 600 |
| RII30220 | Certificate III in Underground Coal Operations | 620 | 650 |
| RII30315 | Certificate III in Underground Metalliferous Mining | 640 | 670 |
| RII30415 | Certificate III in Resource Processing | 430 | 450 |
| RII30520 | Certificate III in Mining Exploration | 540 | 570 |
| RII30615 | Certificate III in Small Mining Operations | 475 | 500 |
| RII30719 | Certificate III in Emergency Response and Rescue | 416 | 438 |
| RII30815 | Certificate III in Civil Construction Plant Operations | 1170 | 1230 |
| RII30919 | Certificate III in Civil Construction  | 1144 | 1204 |
| RII31215 | Certificate III in Civil Foundations | 760 | 800 |
| RII31619 | Certificate III in Trenchless Technology | 830 | 874 |
| RII31820 | Certificate III in Drilling Operations | 530 | 555 |
| RII31915 | Certificate III in Drilling Oil & Gas (Off shore) | 430 | 450 |
| RII32020 | Certificate III in Drilling Oil/Gas (Onshore) | 390 | 410 |
| RII32220 | Certificate III in Well Servicing Operations | 430 | 450 |
| RII40115 | Certificate IV in Surface Extraction Operations | 820 | 860 |
| RII40220 | Certificate IV in Surface Coal Mining (Open Cut Examiner) | 630 | 660 |
| RII40315 | Certificate IV in Metalliferous Mining Operations (Underground) | 715 | 750 |
| RII40420 | Certificate IV in Underground Coal Operations | 740 | 780 |
| RII40515 | Certificate IV in Resource Processing | 540 | 570 |
| RII40615 | Certificate IV in Civil Construction Operations | 810 | 850 |
| RII40715 | Certificate IV in Civil Construction Supervision | 820 | 860 |
| RII40815 | Certificate IV in Civil Construction Design | 830 | 870 |
| RII40920 | Certificate IV in Drilling Operations | 510 | 535 |
| RII41015 | Certificate IV in Drilling Oil & Gas (Off shore) | 520 | 545 |
| RII41120 | Certificate IV in Drilling Oil & Gas (On shore) | 415 | 435 |
| RII41220 | Certificate IV in Well Servicing Operations | 500 | 525 |
| RII41319 | Certificate IV in Emergency Response Coordination | 466 | 490 |
| RII50115 | Diploma of Surface Operations Management | 930 | 980 |
| RII50215 | Diploma of Underground Metalliferous Mining Management | 750 | 790 |
| RII50315 | Diploma of Minerals Processing | 855 | 900 |
| RII50415 | Diploma of Civil Construction Management | 970 | 1020 |
| RII50515 | Diploma of Civil Construction Design | 1570 | 1650 |
| RII50620 | Diploma of Drilling Operations | 760 | 800 |
| RII50715 | Diploma of Drilling Oil & Gas (Off shore) | 1150 | 1210 |
| RII50820 | Diploma of Drilling Oil & Gas (On shore) | 610 | 640 |
| RII50920 | Diploma of Underground Coal Mining Management | 705 | 740 |
| RII51020 | Diploma of Well Servicing Operations | 850 | 895 |
| RII60115 | Advanced Diploma of Metalliferous Mining | 1400 | 1470 |
| RII60215 | Advanced Diploma of Extractive Industries Management | 1310 | 1380 |
| RII60320 | Advanced Diploma of Underground Coal Mining Management | 950 | 1000 |
| RII60415 | Advanced Diploma of Drilling Management | 805 | 845 |
| RII60515 | Advanced Diploma of Civil Construction Design | 1010 | 1060 |
| RII60615 | Advanced Diploma of Civil Construction | 1330 | 1400 |
| RII60720 | Advanced Diploma of Surface Coal Mining Management | 1290 | 1360 |

UNITS OF COMPETENCY AND NOMINAL HOURS

| Unit Code | Unit Title | Nominal Hours |
| --- | --- | --- |
| RIIBEF201E | Plan and organise work | 20 |
| RIIBEF202E | Identify and rectify site operating problems | 40 |
| RIIBEF301D | Run on-site operations | 40 |
| RIIBEF302E | Monitor site production activities | 20 |
| RIIBEF401E | Manage non-routine and complex technical situations | 80 |
| RIIBEF402D | Supervise on-site operations | 50 |
| RIIBEF601E | Conduct business negotiations | 100 |
| RIIBEF602E | Establish and evaluate operational performance management systems | 120 |
| RIIBEF603D | Manage the decision making process | 120 |
| RIIBEF604E | Conduct a feasibility study | 100 |
| RIIBEF605D | Resource site plans and objectives | 120 |
| RIIBHD301E | Conduct surface blast hole drilling operations | 60 |
| RIIBHD302E | Conduct underground development drilling | 28 |
| RIIBHD303E | Conduct long hole drilling | 28 |
| RIIBHD304D | Set up and prepare for open-cut drilling operations | 40 |
| RIIBHD401D | Supervise blast hole drilling operations | 40 |
| RIIBHD501D | Manage blast hole drilling operations | 50 |
| RIIBLA201E | Support shotfiring operations | 30 |
| RIIBLA202F | Support underground shotfiring operations | 20 |
| RIIBLA203E | Conduct mobile mixing of explosives | 30 |
| RIIBLA204E | Store, handle and transport explosives in underground coal mines | 30 |
| RIIBLA205E | Store, handle and transport explosives | 20 |
| RIIBLA301E | Conduct surface shotfiring operations | 50 |
| RIIBLA302E | Conduct shotfiring operations in underground coal mines | 60 |
| RIIBLA303E | Conduct underground development shotfiring | 50 |
| RIIBLA304E | Conduct underground production shotfiring | 50 |
| RIIBLA305E | Conduct secondary blasting | 35 |
| RIIBLA306D | Conduct accretion firing | 30 |
| RIIBLA307E | Conduct a blast survey | 20 |
| RIIBLA308D | Conduct electronic blasting operations | 40 |
| RIIBLA401E | Manage blasting operations | 40 |
| RIIBLA402E | Monitor and control the effects of blasting on the environment | 40 |
| RIIBLA403 | Design blasts | 40 |
| RIIBLA602D | Establish and maintain a blasting system | 120 |
| RIICAR301D | Rehabilitate exploration site | 40 |
| RIICAR302D | Rehabilitate small mine site | 40 |
| RIICAR401D | Supervise rehabilitation operations | 40 |
| RIICBM201D | Strip pile heads | 20 |
| RIICBM301D | Maintain concrete bridges | 80 |
| RIICBM302D | Install pre-cast girders | 80 |
| RIICBM303D | Install pre-cast parapets | 80 |
| RIICBM304D | Operate a bridge inspection unit | 80 |
| RIICBM305D | Install pre-cast concrete bridge decks | 80 |
| RIICBM306D | Undertake concreting work on concrete bridges | 80 |
| RIICBM307D | Construct formwork and false work on concrete bridges | 120 |
| RIICBS202E | Hand spread asphalt | 18 |
| RIICBS203E | Safely handle bituminous materials | 18 |
| RIICBS207E | Take samples of road surfacing materials | 10 |
| RIICBS301E | Conduct profile planer operations | 80 |
| RIICBS302E | Conduct paver screeding operations | 58 |
| RIICBS303E | Conduct materials transfer vehicle operations | 56 |
| RIICBS304E | Compact asphalt with rollers | 44 |
| RIICBS305E | Conduct asphalt paver operation | 52 |
| RIICBS306E | Conduct micro surfacing operations | 80 |
| RIICBS307E | Conduct bitumen sprayer operations | 100 |
| RIICBS308E | Load aggregate using purpose built loaders | 20 |
| RIICBS309E | Conduct self-propelled aggregate spreader operations | 30 |
| RIICBS310E | Conduct patching operations | 60 |
| RIICBS311E | Produce asphalt products | 100 |
| RIICBS312E | Conduct bitumen tanker operations | 64 |
| RIICBS313 | Conduct tack coat spraying operations | 20 |
| RIICBS314 | Conduct aggregate spreader box operations | 18 |
| RIICBS315 | Roll aggregate in sprayed sealing operations | 26 |
| RIICBS316 | Conduct pavement sweeping operations | 18 |
| RIICBS317 | Conduct road maintenance operations | 36 |
| RIICBS401E | Supervise asphalt paving and compaction operations | 40 |
| RIICBS402E | Supervise the application of bituminous sprayed treatments | 45 |
| RIICBS403E | Supervise the application of polymer modified binders | 25 |
| RIICBS404E | Supervise the selection and use of bituminous emulsions | 20 |
| RIICBS405E | Supervise micro surfacing operations | 40 |
| RIICBS406E | Supervise pavement profiling operations using a profiler | 30 |
| RIICBS407E | Supervise the manufacture and delivery of hot mix asphalt | 40 |
| RIICBS408E | Supervise the manufacture of cold mixes | 40 |
| RIICBS409E | Supervise the manufacture of polymer modified binders | 40 |
| RIICBS410E | Supervise the manufacture of bituminous emulsions | 40 |
| RIICBS411E | Supervise the manufacture of micro surfacing mixes | 40 |
| RIICCM201E | Carry out measurements and calculations | 20 |
| RIICCM202E | Identify, locate and protect underground services | 30 |
| RIICCM203D | Read and interpret plans and job specifications | 40 |
| RIICCM204D | Place and fix reinforcement materials | 40 |
| RIICCM205E | Carry out manual excavation | 8 |
| RIICCM206D | Support plant operations | 8 |
| RIICCM207D | Spread and compact materials manually | 12 |
| RIICCM208D | Carry out basic levelling | 16 |
| RIICCM209D | Carry out concrete work | 40 |
| RIICCM210D | Install trench support | 16 |
| RIICCM211D | Erect and dismantle temporary fencing and gates | 40 |
| RIICCM301D | Construct and dismantle fences and gates | 40 |
| RIICCM302 | Track directional boring operations | 35 |
| RIICCM303 | Conduct vacuum excavations | 35 |
| RIICCR401E | Develop and maintain positive community relations | 30 |
| RIICCR501D | Conduct sales in construction materials operations | 80 |
| RIICCR601E | Manage customer relationships | 60 |
| RIICFW301D | Construct underpinning | 60 |
| RIICFW302D | Install temporary and permanent rock anchors | 24 |
| RIICFW303D | Install primary ground support | 24 |
| RIICFW304D | Conduct pile driving operations | 40 |
| RIICFW305D | Conduct cast in-situ pilings operations | 40 |
| RIICFW306D | Direct pile driving operations | 40 |
| RIICFW307D | Direct cast in-situ piling operations | 40 |
| RIICOM201E | Communicate in the workplace | 20 |
| RIICOM301E | Communicate information | 30 |
| RIICPL301D | Install water mains pipelines | 40 |
| RIICPL302D | Install stormwater systems | 40 |
| RIICPL303D | Install sewer pipelines | 40 |
| RIICPL304D | Install pre-cast gully pits | 40 |
| RIICPL305D | Install pre-cast access chambers | 40 |
| RIICPL401D | Apply the principles for the installation of underground service using open excavation | 60 |
| RIICRC201D | Repair potholes | 36 |
| RIICRC202D | Install signs | 16 |
| RIICRC203D | Install sub-soil drainage | 20 |
| RIICRC204D | Install and maintain roadside fixtures | 30 |
| RIICRC205D | Install utility poles | 40 |
| RIICRC206D | Install pre-cast concrete crash barriers | 40 |
| RIICRC207D | Install noise barriers | 40 |
| RIICRC208D | Lay pipes | 40 |
| RIICRC209D | Lay reinforced concrete box culverts | 40 |
| RIICRC301D | Maintain drainage systems | 16 |
| RIICRC302D | Place and form concrete kerb, channel and fixtures | 36 |
| RIICRC303D | Lay pavers | 24 |
| RIICRC304D | Maintain sealed roads | 32 |
| RIICRC305D | Conduct road construction paver screeding operations | 58 |
| RIICRC306D | Conduct earthworks | 80 |
| RIICRC307D | Conduct road pavement construction | 24 |
| RIICRC308D | Conduct paver operations | 80 |
| RIICRC309D | Conduct stabiliser operations | 80 |
| RIICRC310D | Construct and maintain roads | 60 |
| RIICRC311D | Conduct concrete road paver operations | 60 |
| RIICRC312D | Setup and maintain concrete paver stringlines | 40 |
| RIICRC313D | Conduct concrete road curing and texturing operations | 24 |
| RIICRC314D | Handle concrete materials | 24 |
| RIICRC315D | Use concreting materials and equipment | 60 |
| RIICRC316D | Place and compact concrete | 170 |
| RIICRC317D | Finish concrete pavements | 40 |
| RIICRC318D | Cure concrete | 16 |
| RIICRC319D | Saw and cut concrete pavements to initiate planned cracks | 16 |
| RIICRC320D | Seal concrete pavements | 12 |
| RIICRC321D | Use automated paving guidance systems | 80 |
| RIICRC322D | Receive, check and record concrete deliveries | 8 |
| RIICRC323D | Insert tie bars in fresh concrete | 8 |
| RIICRC401D | Apply the principles of flexible pavement construction | 50 |
| RIICRC402D | Apply the principles of rigid pavement construction | 50 |
| RIICRC403D | Apply the principles of the stabilisation of materials | 50 |
| RIICRC404D | Inspect and report on pavement condition | 40 |
| RIICRC405D | Carry out pavement condition measurement | 50 |
| RIICRC406D | Apply the principles of pavement maintenance | 50 |
| RIICRM201E | Escort mobile works | 24 |
| RIICRM202D | Handle and store road marking materials | 8 |
| RIICRM203D | Conduct pedestrian road marking operations | 24 |
| RIICRM204D | Prepare surface for road marking | 16 |
| RIICRM205D | Conduct road marking measuring operations | 16 |
| RIICRM206D | Conduct airless and atomised spraying operations | 20 |
| RIICRM207D | Install raised pavement markers | 16 |
| RIICRM301D | Conduct ride on road marking operations | 16 |
| RIICRM302D | Conduct long line road marking operations | 40 |
| RIICRM303D | Conduct thermo plastic road marking operations | 30 |
| RIICSG401D | Apply the principles of civil concrete structures construction | 100 |
| RIICSG402D | Apply the principles of civil steel structures construction | 100 |
| RIICSG403D | Apply the principles of civil timber structure construction | 100 |
| RIICSG404D | Apply the principles of civil masonry, crib and gabion structure construction | 100 |
| RIICSG405D | Carry out inspections of civil structures | 100 |
| RIICSG406D | Apply principles of maintenance of civil structures | 100 |
| RIICTB201D | Maintain timber bridges | 64 |
| RIICTB202D | Apply bridge durability treatment | 40 |
| RIICTB203D | Produce drawings and sketches | 24 |
| RIICTB301D | Undertake visual inspection | 64 |
| RIICTB302D | Install temporary support members | 40 |
| RIICTB303D | Erect a temporary modular support system (bailey) on an existing bridge | 48 |
| RIICTB304D | Install or replace sub-structure members | 48 |
| RIICTB305D | Install or replace super-structure members | 48 |
| RIICTB306D | Splice and connect timber members | 40 |
| RIICTB307D | Assemble a temporary modular bridge | 48 |
| RIICTB308D | Install or replace truss members | 40 |
| RIICTB309D | Construct, maintain and remove coffer dams | 60 |
| RIICTB310D | Construct specialised timber deck systems | 64 |
| RIICTC301D | Install tunnelling constructions services | 80 |
| RIICTC302D | Line tunnel | 80 |
| RIICTC303D | Excavate tunnel by machine | 32 |
| RIICTC304D | Muck out tunnel earthworks | 16 |
| RIICTC305D | Construct portals | 24 |
| RIICTC401D | Apply the principles of tunnel construction | 100 |
| RIICTT301E | Conduct fluid assisted directional boring | 80 |
| RIICTT302E | Conduct impact moling, ramming and augering operations | 80 |
| RIICTT303E | Control micro tunnelling and pipe-jacking operations | 80 |
| RIICTT304E | Undertake on-line replacement for existing pipeline systems | 80 |
| RIICTT305E | Undertake localised repair and sealing of existing pipeline systems | 80 |
| RIICTT306E | Install cure in-place linings for existing pipeline systems | 80 |
| RIICTT307E | Spray linings for existing pipeline systems | 80 |
| RIICTT308E | Install close-fit linings for existing pipeline systems | 80 |
| RIICTT309E | Install slip lining in existing pipeline systems | 80 |
| RIICTT310E | Renovate large diameter pipes and chambers | 80 |
| RIICTT401D | Apply the principles for the installation of underground services using trenchless technology | 60 |
| RIICTT402D | Apply principles for repair & rehabilitation of underground services using trenchless technology | 60 |
| RIICWD501D | Prepare detailed design of foundations | 100 |
| RIICWD502D | Prepare detailed design of lighting | 100 |
| RIICWD503E | Prepare traffic management plans and traffic guidance schemes | 50 |
| RIICWD504D | Prepare detailed design of environmental controls | 100 |
| RIICWD505D | Prepare detailed design of landscaping | 100 |
| RIICWD506D | Prepare detailed design of canals | 100 |
| RIICWD507D | Prepare detailed geotechnical design | 100 |
| RIICWD508D | Prepare detailed design of rural roads | 100 |
| RIICWD509D | Prepare detailed design of urban roads | 100 |
| RIICWD510D | Prepare detailed design of busways | 100 |
| RIICWD511D | Prepare detailed design of sub-divisions | 100 |
| RIICWD512D | Prepare detailed design of motorways and interchanges | 100 |
| RIICWD513D | Prepare detailed design of rail civil infrastructure | 100 |
| RIICWD514D | Prepare detailed design of dams | 100 |
| RIICWD515D | Prepare detailed design of airfield civil works | 100 |
| RIICWD516D | Prepare detailed design of bicycle ways | 50 |
| RIICWD517D | Prepare detailed design of industrial hardstands | 100 |
| RIICWD518D | Prepare detailed design of open car parks | 50 |
| RIICWD519D | Prepare detailed design of intermodal facilities civil works | 100 |
| RIICWD520D | Prepare detailed design of rigid pavements | 100 |
| RIICWD521D | Prepare detailed design of flexible pavements | 100 |
| RIICWD522D | Prepare stabilised material mix design | 100 |
| RIICWD523D | Prepare asphalt mix design | 60 |
| RIICWD524D | Prepare design of spray seal surfacing | 60 |
| RIICWD525D | Select pavement surfacing | 60 |
| RIICWD526D | Prepare detailed traffic analysis | 100 |
| RIICWD527D | Prepare detailed design of traffic signals | 100 |
| RIICWD528D | Prepare detailed design of traffic management systems | 100 |
| RIICWD529D | Prepare detailed design of underground services | 100 |
| RIICWD530D | Prepare detailed design of surface drainage | 100 |
| RIICWD531D | Prepare detailed design of subsurface drainage | 100 |
| RIICWD532D | Prepare detailed design of tunnels | 100 |
| RIICWD533D | Prepare detailed design of civil concrete structures | 100 |
| RIICWD534D | Prepare detailed design of civil steel structures | 100 |
| RIICWD535D | Prepare detailed design of civil timber structures | 100 |
| RIICWD536D | Prepare detailed design of civil masonry, crib and gabion structures | 100 |
| RIICWD537D | Prepare detailed design of marine structures civil works | 120 |
| RIICWD601D | Manage the civil works design process | 300 |
| RIICWM401D | Supervise civil works | 80 |
| RIICWM402D | Supervise civil works contractors | 100 |
| RIICWM501D | Implement civil construction plan | 120 |
| RIICWM502D | Implement civil works maintenance program | 120 |
| RIICWM503D | Prepare civil works cost estimate | 100 |
| RIICWM504D | Prepare civil works bill of quantities | 100 |
| RIICWM505D | Prepare civil works schedule of rates | 100 |
| RIICWM601D | Establish civil construction plans | 300 |
| RIICWM602D | Establish civil works maintenance programs | 300 |
| RIIDES301D | Inspect, test and maintain diesel engine systems and their ancillary systems | 80 |
| RIIDES302D | Inspect, test and maintain joints on diesel engine systems | 40 |
| RIIDES303D | Inspect, test and maintain cooling systems on diesel engine systems | 20 |
| RIIDES304D | Inspect, test and maintain inlet systems on diesel engine systems | 20 |
| RIIDES305D | Inspect, test and maintain exhaust systems on diesel engine systems | 20 |
| RIIDES306D | Inspect, test and maintain safety shutdown systems on diesel engine systems | 40 |
| RIIDES307D | Test, determine the cause and rectify excessive emission levels on diesel engine systems | 20 |
| RIIDML401D | Apply the principles of demolitions | 100 |
| RIIEGS201D | Operate in isolated and remote situations | 40 |
| RIIEGS202E | Conduct field work | 40 |
| RIIEGS301E | Operate and maintain instruments and field equipment | 40 |
| RIIEGS302D | Plan and undertake field trip | 40 |
| RIIEGS303E | Provide geological field assistance | 40 |
| RIIEGS304E | Mobilise equipment and materials | 40 |
| RIIEGS305E | Navigate in remote or trackless areas | 40 |
| RIIEGS306D | Prepare drill site | 40 |
| RIIENV201E | Identify and assess environmental and heritage concerns | 20 |
| RIIENV202E | Suppress airborne contaminants | 30 |
| RIIENV301E | Conduct atmospheric monitoring | 40 |
| RIIENV302E | Apply environmentally sustainable work practices | 30 |
| RIIENV401E | Supervise dust and noise control | 40 |
| RIIENV402E | Implement and monitor environmental policies | 40 |
| RIIENV501E | Implement and maintain environmental management plans | 120 |
| RIIENV502E | Undertake process or project environmental impact assessments | 120 |
| RIIENV601E | Establish and maintain the environmental management system | 100 |
| RIIERR201E | Conduct fire team operations | 40 |
| RIIERR202E | Contribute to the control of emergencies and critical situations | 30 |
| RIIERR203E | Escape from hazardous situations unaided | 40 |
| RIIERR204E | Provide aided rescue to endangered personnel | 40 |
| RIIERR205D | Apply initial response First Aid | 20 |
| RIIERR301E | Respond to work site incidents | 20 |
| RIIERR302E | Respond to local emergencies and incidents | 20 |
| RIIERR303E | Operate in self-contained regenerative oxygen breathing apparatus | 20 |
| RIIERR304D | Control emergencies and critical situations | 30 |
| RIIERR305E | Control underground fires | 30 |
| RIIERR306E | Conduct underground searches | 20 |
| RIIERR307E | Extricate casualties from underground incidents | 30 |
| RIIERR308E | Extricate and transport people involved in incidents | 40 |
| RIIERR309D | Establish and operate from fresh air base | 20 |
| RIIERR310D | Provide support for rescue operations | 20 |
| RIIERR401E | Apply and monitor emergency preparedness and response systems in surface operations | 60 |
| RIIERR402E | Apply and monitor underground coal mine emergency preparedness and response systems | 60 |
| RIIERR403E | Lead rescue teams | 40 |
| RIIERR404D | Apply and monitor underground Metalliferous mine emergency preparedness and response systems | 60 |
| RIIERR405 | Control emergencies and critical situations | 30 |
| RIIERR406 | Provide support for rescue operations | 20 |
| RIIERR501E | Implement underground coal mine emergency preparedness and response systems | 60 |
| RIIERR503D | Implement emergency preparedness and response systems | 70 |
| RIIERR504E | Manage major incidents and emergencies | 120 |
| RIIERR601E | Establish and maintain mine emergency preparedness and response systems | 120 |
| RIIERR602E | Establish and maintain underground coal mine emergency preparedness and response systems | 80 |
| RIIFIA401E | Manage financial records | 50 |
| RIIGOV201E | Comply with site work processes/procedures | 20 |
| RIIGOV401E | Apply, monitor and report on compliance systems | 80 |
| RIIGOV501E | Identify, implement and maintain legal compliance requirements | 80 |
| RIIGOV601E | Establish, maintain and develop a statutory compliance management system | 120 |
| RIIHAN201E | Operate a forklift | 40 |
| RIIHAN202D | Handle and store cargo | 20 |
| RIIHAN203E | Conduct lifting operations | 40 |
| RIIHAN204D | Load and unload cargo/goods | 20 |
| RIIHAN205D | Secure cargo | 12 |
| RIIHAN206E | Transport plant, equipment and personnel | 30 |
| RIIHAN207D | Operate personnel and materials hoists | 30 |
| RIIHAN208E | Perform dogging | 80 |
| RIIHAN209E | Perform basic rigging | 40 |
| RIIHAN210D | Perform intermediate rigging operations | 40 |
| RIIHAN211D | Conduct basic scaffolding operations | 56 |
| RIIHAN212E | Conduct non-slewing crane operations | 40 |
| RIIHAN213E | Work effectively in the drilling industry | 50 |
| RIIHAN301E | Operate elevating work platform | 40 |
| RIIHAN302D | Conduct intermediate scaffolding operations | 40 |
| RIIHAN304E | Conduct slewing crane operations | 80 |
| RIIHAN305D | Operate a gantry or overhead crane | 40 |
| RIIHAN307E | Operate a vehicle loading crane | 40 |
| RIIHAN308F | Load and unload plant | 20 |
| RIIHAN309F | Conduct telescopic materials handler operations | 80 |
| RIIHAN310E | Conduct crane operations underground | 40 |
| RIIHAN311F | Conduct operations with integrated tool carrier | 80 |
| RIIHAN401D | Organise and monitor wharf/terminal operations | 24 |
| RIIHAN402D | Process movement of containers and cargo | 28 |
| RIIIMG301E | Maintain site records | 10 |
| RIILAT401E | Provide leadership in the supervision of Indigenous employees | 50 |
| RIILAT402E | Provide leadership in the supervision of diverse work teams | 50 |
| RIILAT601E | Manage group processes | 120 |
| RIIMCO201D | Conduct spreader operations | 60 |
| RIIMCO202E | Conduct mobile conveyor operations | 40 |
| RIIMCO301D | Conduct control centre operations | 60 |
| RIIMCO302D | Conduct surface miner operations | 60 |
| RIIMCO303E | Conduct auger miner operations | 80 |
| RIIMCP202D | Conduct rail dispatch operations | 40 |
| RIIMCP301D | Monitor plant operations for coal preparation | 60 |
| RIIMCU201D | Operate power tram | 40 |
| RIIMCU202D | Conduct tracked vehicle/plant operations | 40 |
| RIIMCU203D | Conduct wheeled vehicle operations (non-articulated) | 40 |
| RIIMCU204D | Conduct wheeled vehicle operations (articulated) | 40 |
| RIIMCU205D | Conduct rotational drilling | 40 |
| RIIMCU206D | Install, maintain and recover gas drainage systems | 40 |
| RIIMCU207D | Install, maintain and recover electrical services | 20 |
| RIIMCU208E | Conduct basic strata control operations | 40 |
| RIIMCU209E | Conduct roadway maintenance | 20 |
| RIIMCU210D | Conduct stonedusting operations | 20 |
| RIIMCU211D | Install and maintain explosion barriers | 20 |
| RIIMCU212E | Construct and maintain basic ventilation devices | 20 |
| RIIMCU213E | Conduct feeder breaker operations | 40 |
| RIIMCU214E | Conduct ventilation operations | 40 |
| RIIMCU215D | Operate longwall ancillary equipment | 40 |
| RIIMCU216D | Maintain lamp cabin operations | 40 |
| RIIMCU217 | Apply spontaneous combustion management measures | 40 |
| RIIMCU301E | Conduct specialised strata control operations | 40 |
| RIIMCU302F | Construct and maintain ventilation devices | 40 |
| RIIMCU303E | Conduct continuous miner operations | 120 |
| RIIMCU304E | Conduct shuttle car operations | 40 |
| RIIMCU305E | Conduct outburst mining operations | 40 |
| RIIMCU306E | Conduct shearer operations | 40 |
| RIIMCU307E | Conduct longwall face equipment operations | 120 |
| RIIMCU308E | Install and recover longwall equipment | 40 |
| RIIMCU309E | Operate breaker line supports | 40 |
| RIIMCU310E | Conduct flexible conveyor train (FCT) operations | 40 |
| RIIMCU311E | Monitor control processes | 40 |
| RIIMCU401E | Conduct special roadway operations | 60 |
| RIIMCU403E | Apply and monitor the gas management plan | 60 |
| RIIMCU404E | Apply and monitor the gas drainage management plan | 60 |
| RIIMCU405D | Apply and monitor the outburst management plan | 60 |
| RIIMCU406E | Apply and monitor the inrush management plan | 70 |
| RIIMCU407E | Apply and monitor the strata management plan | 60 |
| RIIMCU408E | Apply the spontaneous combustion management plan | 60 |
| RIIMCU501E | Implement the spontaneous combustion management plan | 60 |
| RIIMCU502E | Implement the gas management plan | 60 |
| RIIMCU503D | Implement the gas drainage management plan | 60 |
| RIIMCU504D | Implement the outburst management plan | 60 |
| RIIMCU505E | Implement the inrush management plan | 80 |
| RIIMCU506E | Implement the strata management plan | 60 |
| RIIMCU601E | Establish and maintain spontaneous combustion management systems | 80 |
| RIIMCU602E | Establish and maintain gas management systems | 80 |
| RIIMCU603D | Establish and maintain the gas drainage management plan | 80 |
| RIIMCU604D | Establish and maintain the outburst management plan | 80 |
| RIIMCU605E | Establish and maintain inrush management systems | 100 |
| RIIMCU606E | Establish and maintain the mining method and strata management systems | 80 |
| RIIMEX201D | Suppress dust in open-cut environment | 30 |
| RIIMEX202D | Install open-cut mine ground support | 25 |
| RIIMEX203D | Break oversize rock | 32 |
| RIIMEX204D | Conduct workboat/barge operations | 30 |
| RIIMEX301D | Conduct dredging operations | 40 |
| RIIMEX302D | Assess ground conditions | 20 |
| RIIMEX303 | Conduct local geotechnical risk control in surface operations | 80 |
| RIIMEX401D | Apply pit plan | 190 |
| RIIMEX402D | Supervise dredging operations | 40 |
| RIIMEX403D | Apply the principles of canal construction | 100 |
| RIIMEX404E | Apply and monitor systems for stable mining | 80 |
| RIIMEX405E | Apply and monitor systems and methods of surface coal mining | 80 |
| RIIMEX406D | Apply and monitor mine transport systems and production equipment | 60 |
| RIIMEX407 | Apply and monitor the ground control management plan | 80 |
| RIIMEX501D | Implement pit plan | 90 |
| RIIMEX502D | Implement systems and methods of mining | 70 |
| RIIMEX503D | Manage dredging operations | 60 |
| RIIMEX504 | Implement the ground control management plan | 90 |
| RIIMEX601D | Plan pit development | 120 |
| RIIMEX602D | Establish and maintain surface mining ground control and slope stability systems | 120 |
| RIIMEX603D | Establish and maintain underground mining ground control and stable mining systems | 120 |
| RIIMEX604D | Establish and maintain surface product haulage and transport systems | 120 |
| RIIMEX605D | Establish, implement and maintain operational management plans | 120 |
| RIIMPG201D | Connect and disconnect reefer refrigeration units | 20 |
| RIIMPG301D | Control and monitor automated plant/machinery | 40 |
| RIIMPO201E | Operate roller/compactor underground | 24 |
| RIIMPO205E | Operate roller/compactor | 20 |
| RIIMPO206D | Conduct bulk water truck operations | 30 |
| RIIMPO208F | Operate support equipment | 60 |
| RIIMPO210E | Conduct underground truck operations | 24 |
| RIIMPO301E | Conduct hydraulic excavator operations | 40 |
| RIIMPO302E | Conduct hydraulic shovel operations | 45 |
| RIIMPO303E | Conduct rope shovel operations | 50 |
| RIIMPO304E | Conduct wheel loader operations | 40 |
| RIIMPO305F | Conduct coal stockpile dozer operations | 40 |
| RIIMPO306D | Operate plant/machinery on live stockpiles | 30 |
| RIIMPO307E | Conduct wheel grader operations in underground mines | 60 |
| RIIMPO308F | Conduct tracked dozer operations | 40 |
| RIIMPO309F | Conduct wheeled dozer operations | 40 |
| RIIMPO310F | Conduct grader operations | 40 |
| RIIMPO312E | Conduct scraper operations | 40 |
| RIIMPO313E | Conduct face loader operations | 40 |
| RIIMPO314E | Operate small open cut mine equipment | 30 |
| RIIMPO315E | Conduct tractor operations | 60 |
| RIIMPO316E | Conduct self-propelled compactor operations | 40 |
| RIIMPO317F | Conduct roller operations | 80 |
| RIIMPO318F | Conduct civil construction skid steer loader operations | 80 |
| RIIMPO319E | Conduct backhoe/loader operations | 200 |
| RIIMPO320F | Conduct civil construction excavator operations | 200 |
| RIIMPO321F | Conduct civil construction wheeled front end loader operations | 160 |
| RIIMPO322E | Conduct civil construction tracked front end loader operations | 80 |
| RIIMPO323E | Conduct civil construction dozer operations | 240 |
| RIIMPO324F | Conduct civil construction grader operations | 240 |
| RIIMPO325E | Conduct civil construction scraper operations | 160 |
| RIIMPO326E | Conduct water vehicle operations | 40 |
| RIIMPO327E | Conduct pipe layer operations | 80 |
| RIIMPO328E | Conduct continuous bucket trencher operations | 40 |
| RIIMPO329F | Conduct dragline operations | 120 |
| RIIMPO330E | Conduct bucket-wheel operations | 80 |
| RIIMPO331E | Conduct operations with stockpile dozer | 80 |
| RIIMPO333E | Conduct underground load, haul and dump truck operations | 40 |
| RIIMPO334E | Conduct skid steer loader operations using attachments | 80 |
| RIIMPO335E | Conduct skid steer loader operations without attachments | 80 |
| RIIMPO336E | Conduct belly dump truck operations | 60 |
| RIIMPO337E | Conduct articulated haul truck operations | 40 |
| RIIMPO338E | Conduct rigid haul truck operations | 40 |
| RIIMPO339A | Conduct side tipper operations | 40 |
| RIIMPO401D | Supervise mobile plant operations | 40 |
| RIIMPO402D | Apply the principles of earthworks construction | 40 |
| RIIMPO403D | Monitor interaction of heavy and light vehicles and mining equipment | 100 |
| RIIMPO501D | Implement, monitor, rectify and report on mobile plant and equipment systems | 60 |
| RIIMPO502D | Manage the interaction of heavy and light vehicles and mining equipment | 100 |
| RIIMPO503D | Manage laser levelling of operating plant | 80 |
| RIIMSM301D | Establish a mining claim | 30 |
| RIIMSM302D | Plan small mine operations | 40 |
| RIIMSM303D | Install underground shaft | 40 |
| RIIMSM304D | Inspect small mines operations | 30 |
| RIIMSM305D | Conduct materials extraction operations underground | 40 |
| RIIMSM306D | Design, develop and maintain pillar system and ground control | 40 |
| RIIMSM307E | Install and maintain ventilation systems and equipment | 40 |
| RIINHB201E | Load, secure and unload drilling equipment and materials | 40 |
| RIINHB202E | Set up and pack up drill sites | 40 |
| RIINHB203E | Support drilling processes | 60 |
| RIINHB205F | Assist continuous flight auger drilling | 40 |
| RIINHB206E | Assist large diameter auger drilling | 40 |
| RIINHB208E | Assist diamond core drilling | 40 |
| RIINHB209E | Assist guided boring | 40 |
| RIINHB210E | Assist surface directional drilling | 40 |
| RIINHB211E | Assist mud rotary drilling | 40 |
| RIINHB213D | Assist cable tool drilling | 45 |
| RIINHB216E | Assist underground in-seam directional drilling | 40 |
| RIINHB217E | Assist horizontal direction drilling | 40 |
| RIINHB218E | Assist grouting and cementing operations | 40 |
| RIINHB219E | Assist with reverse circulation drilling | 40 |
| RIINHB220 | Assist coil tube drilling | 40 |
| RIINHB221 | Assist rotary air drilling | 40 |
| RIINHB222 | Assist sonic drilling operations | 40 |
| RIINHB223 | Prepare, run and cement casing | 40 |
| RIINHB301E | Set up and prepare for drilling operations | 65 |
| RIINHB302D | Conduct reaming | 65 |
| RIINHB303D | Install product pipe | 40 |
| RIINHB304E | Conduct reverse circulation drilling operations | 65 |
| RIINHB305E | Conduct continuous flight auger drilling | 65 |
| RIINHB306E | Conduct large diameter auger drilling | 65 |
| RIINHB307D | Conduct conventional core drilling | 65 |
| RIINHB308D | Conduct wireline core drilling | 65 |
| RIINHB309E | Conduct guided boring | 65 |
| RIINHB310D | Conduct surface directional drilling | 65 |
| RIINHB311E | Conduct mud rotary drilling operations | 65 |
| RIINHB312D | Conduct raise boring | 65 |
| RIINHB313D | Conduct cable tool drilling | 65 |
| RIINHB315D | Conduct top-hole hammer drilling | 65 |
| RIINHB316D | Conduct underground in-seam directional drilling | 40 |
| RIINHB317D | Install underground in-seam directional drilling standpipes | 40 |
| RIINHB318D | Install and operate water and gas control equipment | 40 |
| RIINHB319D | Install de-watering conduit and gas drainage equipment | 40 |
| RIINHB320D | Construct monitoring bores | 65 |
| RIINHB322E | Construct multiple aquifer production bores | 65 |
| RIINHB323D | Conduct horizontal directional drilling | 65 |
| RIINHB324E | Conduct grouting or cementing operations | 40 |
| RIINHB325E | Construct single aquifer bores | 70 |
| RIINHB326 | Conduct coil tube drilling | 65 |
| RIINHB327 | Conduct cyber chair drilling operations | 65 |
| RIINHB328 | Conduct rotary air drilling | 65 |
| RIINHB329 | Conduct sonic drilling operations | 65 |
| RIINHB330 | Conduct down-hole hammer drilling | 40 |
| RIINHB401E | Plan and supervise the mobilisation of equipment, crew and materials | 50 |
| RIINHB402E | Supervise drilling operations | 50 |
| RIINHB403D | Supervise geotechnical drilling operations | 50 |
| RIINHB411E | Construct artesian (flowing) aquifer bores | 65 |
| RIINHB412D | Construct geothermal wells | 65 |
| RIINHB501F | Plan drilling | 60 |
| RIIOGD201E | Assist in maintaining rig safety and emergency procedures | 40 |
| RIIOGD202E | Carry out equipment and basic rig maintenance procedures | 40 |
| RIIOGD203F | Prepare and operate drilling fluid systems | 30 |
| RIIOGD204F | Perform rig floor operations | 50 |
| RIIOGD205E | Support blow out prevention operations | 20 |
| RIIOGD206E | Assist and monitor well control operations | 20 |
| RIIOGD209F | Operate and maintain ancillary equipment | 40 |
| RIIOGD301E | Conduct and maintain derrick operations | 50 |
| RIIOGD302F | Assist in running casing | 30 |
| RIIOGD303F | Trip pipe | 30 |
| RIIOGD304D | Apply effective coal seam gas control practices | 40 |
| RIIOGD305E | Apply blow out prevention operational procedures | 40 |
| RIIOGD401E | Rig up, conduct pre-spud operations and rig down | 30 |
| RIIOGD402E | Participate in nippling-up and pressure tests | 30 |
| RIIOGD403E | Conduct drilling operations | 30 |
| RIIOGD404E | Coordinate air drilling operations | 30 |
| RIIOGD405E | Carry out well control and blow out prevention operations | 65 |
| RIIOGD406D | Shut down rig | 30 |
| RIIOGD501F | Manage rig operations | 40 |
| RIIOGD502E | Plan and evaluate rig operations | 40 |
| RIIOGD503E | Oversee drilling operations | 80 |
| RIIOGD504E | Manage drilling operations | 80 |
| RIIOGD505E | Manage drilling and well servicing induction and orientation | 50 |
| RIIOGD506D | Manage rig move and camp move | 50 |
| RIIOGD507D | Manage and monitor rig-up and rig-up to spud operations | 50 |
| RIIOGD508D | Manage well completion and abandonment | 50 |
| RIIOGD601D | Manage multiple drilling operations | 80 |
| RIIOGF201D | Carry out deck operations | 20 |
| RIIOGF202D | Assist in the transfer of passengers and freight during helicopter operations | 20 |
| RIIOGF203D | Contribute to the control of offshore emergencies | 20 |
| RIIOGF301E | Monitor, operate and maintain mud pits and equipment | 30 |
| RIIOGF302E | Operate drilling fluids and mud pits | 40 |
| RIIOGN201F | Carry out rig lease operations | 30 |
| RIIOGN302F | Operate mud pumps | 20 |
| RIIOGN303E | Operate, monitor and maintain mud systems | 40 |
| RIIPBE201D | Conduct aeration process | 28 |
| RIIPBE202D | Conduct digestion process | 32 |
| RIIPBE203D | Conduct precipitation operations | 32 |
| RIIPBE204D | Conduct reduction process | 32 |
| RIIPBE205D | Conduct roasting operations | 32 |
| RIIPBE301D | Conduct calcinations activities | 26 |
| RIIPBE302D | Conduct bacterial oxidation | 32 |
| RIIPBE303D | Conduct filtering process | 26 |
| RIIPBE304D | Conduct heavy media separation | 32 |
| RIIPBE305D | Conduct high tension separation | 28 |
| RIIPBE306D | Conduct leaching process | 32 |
| RIIPBE307D | Conduct pressure oxidation | 32 |
| RIIPBE308D | Conduct thickening and clarifying process | 24 |
| RIIPBE309D | Conduct wet gravity separation | 28 |
| RIIPBE310D | Conduct flotation process | 38 |
| RIIPBE311D | Conduct magnetic separation | 28 |
| RIIPBP202D | Conduct air cleaning activities | 32 |
| RIIPBP301D | Process lime products | 32 |
| RIIPBP302D | Control operations in acid plant | 40 |
| RIIPEO201E | Conduct conveyor operations | 40 |
| RIIPEO202E | Provide deck support for conveyor-car high wall mining operations | 40 |
| RIIPEO203D | Conduct stacker operations | 30 |
| RIIPEO204D | Conduct shore side mooring operations | 30 |
| RIIPEO205D | Conduct ship loading operations | 30 |
| RIIPEO206D | Lay and recover cables and hoses | 20 |
| RIIPEO207E | Carry out conveyor system shift | 20 |
| RIIPEO208E | Extend, retract and maintain conveyor componentry | 20 |
| RIIPEO301E | Conduct conveyor-car high wall mining operations | 40 |
| RIIPEO302E | Operate and monitor ore car dumpers | 40 |
| RIIPGP201D | Conduct pump operations | 16 |
| RIIPGP202D | Handle reagents | 28 |
| RIIPGP203D | Operate compressors | 24 |
| RIIPGP204D | Carry out bore-field operations | 30 |
| RIIPGP205D | Handle, store and use cyanide | 30 |
| RIIPGP301D | Conduct drying activities | 26 |
| RIIPGP302D | Monitor and operate auxiliary plant and equipment | 40 |
| RIIPHA201D | Operate raw material feed systems | 20 |
| RIIPHA301D | Conduct milling/grinding | 32 |
| RIIPHA302D | Operate and monitor filter processes | 24 |
| RIIPHA303D | Operate agglomeration circuit | 32 |
| RIIPRE201D | Conduct solvent extraction | 36 |
| RIIPRE202D | Prepare and carry out electrolytic cleaning process | 26 |
| RIIPRE203D | Prepare for sintering activities | 14 |
| RIIPRE204D | Sinter materials | 14 |
| RIIPRE301D | Conduct electrowinning/electro-refining operations | 36 |
| RIIPRE302D | Conduct elution processes | 32 |
| RIIPRE303D | Conduct gold room operations | 40 |
| RIIPRE304D | Monitor casting quality | 24 |
| RIIPRM501E | Implement, monitor, rectify and report on contracts | 80 |
| RIIPRO201D | Conduct crushing operations | 30 |
| RIIPRO202D | Conduct screening and conveying operations | 30 |
| RIIPRO203D | Operate programmable logic control systems | 30 |
| RIIPRO204D | Bulk package and store product | 20 |
| RIIPRO205D | Conduct blending plant operations | 30 |
| RIIPRO301D | Conduct crushing and screening plant operations | 50 |
| RIIPRO302D | Perform process control room operations | 50 |
| RIIPRO303D | Conduct sand wash plant operations | 30 |
| RIIPRO401D | Supervise processing operations | 60 |
| RIIPRO402D | Supervise recycled materials operations | 40 |
| RIIPRO501D | Implement site processing plant operations | 40 |
| RIIPRO502D | Develop, implement and maintain process control systems | 40 |
| RIIPRO601D | Design processing plant | 150 |
| RIIPSM201D | Tap furnaces | 24 |
| RIIPSM202D | Prepare for pelletising activities | 14 |
| RIIPSM203D | Produce pellets | 14 |
| RIIPSM301D | Cast a blast furnace | 34 |
| RIIPSM302D | Cast ingots | 20 |
| RIIPSM303D | Operate a blast furnace | 70 |
| RIIPSM304D | Operate furnaces | 32 |
| RIIPSM305D | Operate converters | 32 |
| RIIPSM306D | Supply molten metal and additives to furnaces | 28 |
| RIIPSM307D | Control molten metal in holding furnace/vessel | 32 |
| RIIPSM308D | Monitor and maintain furnace gas efficiency | 32 |
| RIIPSM309D | Monitor and maintain flue gas efficiency | 32 |
| RIIQUA201E | Maintain and monitor site quality standards | 20 |
| RIIQUA401E | Apply a quality management system on site | 60 |
| RIIQUA501E | Implement, monitor and develop quality management plans | 100 |
| RIIQUA601E | Establish and maintain a quality system | 100 |
| RIIRAI401D | Apply and monitor mine services and infrastructure systems | 60 |
| RIIRAI402D | Apply and monitor site plant and resource management plan | 60 |
| RIIRAI501D | Implement mine transport systems and production equipment | 60 |
| RIIRAI502D | Develop and implement site plant and resource management plan | 70 |
| RIIRAI503D | Implement site services and infrastructure systems | 70 |
| RIIRAI504D | Select and install surface plant and equipment | 70 |
| RIIRAI505D | Implement the surface mine mechanical plant management plan | 100 |
| RIIRAI506D | Implement, monitor, rectify and report on inventory control system | 80 |
| RIIRAI507D | Implement the underground coal mine mechanical plant management plan | 80 |
| RIIRAI508D | Implement mine services systems | 80 |
| RIIRAI509D | Implement mine fixed plant and infrastructure systems | 80 |
| RIIRAI510D | Implement, monitor, rectify and report on interfaces between electrical and mechanical componentry | 80 |
| RIIRAI601D | Establish and maintain the site infrastructure and fixed plant systems | 120 |
| RIIRAI602D | Establish and maintain mine mechanical plant, services and infrastructure systems | 120 |
| RIIRAI603E | Establish and maintain mine transport systems and production equipment | 80 |
| RIIRAI604E | Establish and maintain mine services and infrastructure systems | 80 |
| RIIRAI605D | Establish and maintain an underground mine mechanical plant management system | 100 |
| RIIRAI606D | Establish and maintain mine closure management systems | 120 |
| RIIRAI607D | Establish quarry operations | 100 |
| RIIRAI608D | Establish quarry development | 180 |
| RIIRAI609D | Establish and maintain electrical installations, reticulation and protection system | 120 |
| RIIRAI610D | Establish & maintain mechanical standard/engineering practices for transport/ production equiptment | 120 |
| RIIRAI611D | Establish and maintain a surface mine mechanical plant management system | 100 |
| RIIRAI612D | Establish and maintain underground product haulage and transport systems | 120 |
| RIIRIS201E | Conduct local risk control | 20 |
| RIIRIS202E | Respond to site based spills | 20 |
| RIIRIS301E | Apply risk management processes | 40 |
| RIIRIS401E | Apply site risk management system | 40 |
| RIIRIS402E | Carry out the risk management process | 60 |
| RIIRIS403E | Manage and coordinate spill response | 50 |
| RIIRIS501E | Implement and maintain management systems to control risk | 80 |
| RIIRIS601E | Establish and maintain risk management systems | 100 |
| RIIRTM201D | Position, set-up and operate a variable message sign | 40 |
| RIIRTM202D | Position, set-up and operate portable traffic signals | 40 |
| RIIRTM203D | Work as a safety observer/spotter | 20 |
| RIIRTM301D | Operate a truck or trailer mounted attenuator | 40 |
| RIISAM201E | Handle resources and infrastructure materials and safely dispose of nontoxic materials | 16 |
| RIISAM202E | Isolate and access plant | 30 |
| RIISAM203E | Use hand and power tools | 80 |
| RIISAM204E | Operate small plant and equipment | 20 |
| RIISAM205E | Cut, weld and bend materials | 40 |
| RIISAM207E | Apply operational maintenance skills | 40 |
| RIISAM208E | Perform plant operational maintenance | 50 |
| RIISAM209E | Carry out operational maintenance | 40 |
| RIISAM212E | Service mine plant and equipment | 40 |
| RIISAM213E | Position and set up mobile lighting | 10 |
| RIISAM214D | Provide support to electrical tradesperson | 40 |
| RIISAM215E | Carry out drilling industry operational maintenance | 40 |
| RIISAM301F | Test operational functions of vehicles and equipment | 30 |
| RIISAM302D | Service and handover plant and machines | 30 |
| RIISAM303E | Shutdown dredge for operator maintenance | 40 |
| RIISAM304E | Install, commission and maintain major conveyor equipment and systems | 80 |
| RIISAM305D | Repair and splice conveyor belting | 40 |
| RIISAM306E | Service and maintain conveyors, feeders and hoppers | 40 |
| RIISAM307E | Service and maintain crushers | 40 |
| RIISAM308E | Service and maintain screens | 40 |
| RIISAM309E | Service and maintain pumps | 40 |
| RIISAM310D | Install and commission plant, machinery and services | 40 |
| RIISAM311D | Maintain winder equipment | 40 |
| RIISAM312D | Inspect and maintain shafts and structures | 24 |
| RIISAM313D | Monitor, inspect and service ropes and attachments | 32 |
| RIISAM315A | Manage tyre, wheel and rim assembly applications | 40 |
| RIISAM401E | Apply site plant, equipment and infrastructure maintenance management plans | 40 |
| RIISAM402D | Supervise operation of electrical equipment and installations | 40 |
| RIISAM403E | Commission/recommission plant | 66 |
| RIISAM404 | Monitor oil and gas equipment maintenance | 40 |
| RIISAM501E | Implement and maintain the site plant, equipment and infrastructure maintenance plans | 60 |
| RIISAM502E | Manage general drilling equipment maintenance | 60 |
| RIISAM601E | Establish and maintain plant, equipment and infrastructure maintenance systems | 120 |
| RIISAM602E | Establish and maintain maintenance management system for mechanical plant and equipment | 120 |
| RIISDM501D | Conduct mine surveying operations | 80 |
| RIISRM301D | Blend stockpile materials | 20 |
| RIISRM302D | Conduct stockpile reclaiming operations | 40 |
| RIISRM303D | Move and position materials to form stockpiles | 24 |
| RIISRM304D | Maintain stockpiles | 20 |
| RIISRM401D | Apply and monitor the site stockpile management plan | 60 |
| RIISRM501D | Implement the stockpile management plan | 60 |
| RIISRM502D | Design stockpile formations and reclaiming systems | 40 |
| RIISRM601D | Establish and maintain the stockpile management system | 120 |
| RIISTD201D | Read and interpret maps | 40 |
| RIISTD202D | Collect routine site samples | 40 |
| RIISTD301D | Take environmental samples and measurements | 120 |
| RIISTD302E | Process data and maintain accurate records | 40 |
| RIISTD401 | Monitor quarry laboratory operations and the quality of results | 60 |
| RIIUMM201D | Install ground support | 30 |
| RIIUMM202D | Install and maintain vent | 24 |
| RIIUMM203D | Prepare and perform manual scaling operations | 14 |
| RIIUMM301D | Conduct wet filling activities | 16 |
| RIIUMM302D | Install sets | 32 |
| RIIUMM303D | Conduct hand held mining | 40 |
| RIIUMM304D | Construct and maintain underground roads | 40 |
| RIIUMM305D | Install and remove a secondary fan | 16 |
| RIIUMM306D | Conduct mechanical scaling | 22 |
| RIIUMM307D | Maintain underground stockpiles | 24 |
| RIIUND201D | Install, maintain and recover reticulation systems | 24 |
| RIIUND202E | Operate from elevated work platform underground | 30 |
| RIIUND204D | Refuel vehicles/machines underground | 32 |
| RIIUND205E | Respond to a workforce incident | 32 |
| RIIUND206D | Install hand held underground ground support | 20 |
| RIIUND207E | Conduct underground lifting operations | 40 |
| RIIUND208E | Conduct skip operations | 24 |
| RIIUND209E | Operate automated winder | 24 |
| RIIUND301E | Operate manual winder | 32 |
| RIIUND302E | Conduct cage operations | 32 |
| RIIUND303E | Operate winder for shaft sinking | 32 |
| RIIUND304D | Recover equipment | 30 |
| RIIUND305D | Recover underground equipment | 40 |
| RIIUND306D | Conduct line of sight remote operations | 28 |
| RIIUND307D | Conduct tele-remote operations | 28 |
| RIIUND308D | Conduct control room operations | 40 |
| RIIUND309D | Conduct mechanical underground ground support drilling and installation | 40 |
| RIIUND310D | Apply shot-crete underground | 40 |
| RIIUND401E | Apply and monitor the ventilation management plan | 60 |
| RIIUND501E | Implement the ventilation management plan | 70 |
| RIIUND601E | Establish and maintain ventilation management systems | 120 |
| RIIUND602D | Establish and maintain mine services systems | 120 |
| RIIUND603D | Manage, operate and maintain the mine ventilation system | 60 |
| RIIVEH201E | Operate a light vehicle | 30 |
| RIIVEH202F | Operate a medium vehicle | 30 |
| RIIVEH203E | Operate a light vehicle underground | 40 |
| RIIVEH301D | Conduct rail haulage operations | 40 |
| RIIVEH302E | Operate multi-combination vehicle | 40 |
| RIIVEH303F | Drive heavy combination vehicle | 40 |
| RIIVEH304E | Conduct tip truck operations | 60 |
| RIIVEH305F | Operate and maintain a four wheel drive vehicle | 40 |
| RIIVEH306E | Operate a mine service vehicle | 20 |
| RIIVEH307F | Operate a heavy rigid vehicle | 40 |
| RIIWBP201D | Treat and dispose of rejects and tailings | 30 |
| RIIWBP202D | Distribute tailings | 16 |
| RIIWBP203D | Monitor tailings dam environment | 16 |
| RIIWBP401D | Apply and monitor site waste and by-products management plan | 60 |
| RIIWBP501D | Implement site waste and by-product management plan | 70 |
| RIIWBP502D | Plan and monitor recycled material operations | 40 |
| RIIWBP601D | Establish and maintain waste and by-product management system | 120 |
| RIIWHS201E | Work safely and follow WHS policies and procedures | 20 |
| RIIWHS202E | Enter and work in confined spaces | 30 |
| RIIWHS204E | Work safely at heights | 20 |
| RIIWHS205E | Control traffic with stop-slow bat | 20 |
| RIIWHS206 | Control traffic with portable traffic control devices and temporary traffic signs | 20 |
| RIIWHS301E | Conduct safety and health investigations | 30 |
| RIIWHS302E | Implement traffic management plans | 20 |
| RIIWHS303 | Position, set up and program portable traffic control devices | 25 |
| RIIWHS401E | Supervise work in confined spaces | 60 |
| RIIWHS402E | Examine and maintain mine safety | 50 |
| RIIWHS403E | Apply the work health and safety management system | 80 |
| RIIWHS404E | Implement and monitor health and hygiene management systems | 50 |
| RIIWHS405D | Maintain standard procedures and safe working practices | 20 |
| RIIWHS601E | Establish and maintain the WHS management system | 120 |
| RIIWHS602E | Incorporate health and hygiene factors into mine management | 60 |
| RIIWMG201D | Conduct dewatering activities in surface operations | 30 |
| RIIWMG202D | Conduct dewatering operations in underground mining operations | 30 |
| RIIWMG203D | Drain and dewater civil construction site | 20 |
| RIIWMG301D | Control construction site water table | 24 |
| RIIWMG302D | Reclaim and treat water | 20 |
| RIIWMG401D | Apply and monitor the site water management plan | 60 |
| RIIWMG402D | Monitor and coordinate waste and process water treatment | 40 |
| RIIWMG501D | Implement the site water management plan | 70 |
| RIIWMG601D | Establish and maintain water management system | 120 |
| RIIWSV203E | Prepare equipment for well servicing air operations | 30 |
| RIIWSV301F | Conduct and maintain well servicing derrick operations | 50 |
| RIIWSV302E | Trip production string for well servicing operations | 30 |
| RIIWSV303E | Operate fluid systems | 40 |
| RIIWSV304E | Prepare well servicing fishing operations | 40 |
| RIIWSV401E | Rig up and rig down for well servicing operations | 30 |
| RIIWSV402D | Conduct well servicing milling operations | 30 |
| RIIWSV403E | Participate in well servicing nippling-up and pressure test | 30 |
| RIIWSV404D | Conduct fishing operations | 30 |
| RIIWSV501D | Manage well servicing induction and orientation | 50 |
| RIIWSV502E | Manage well completion and rig release | 50 |
| RIIWSV503E | Manage and monitor rig-up operations | 40 |

CONTACTS AND LINKS

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| **Curriculum Maintenance Manager (CMM)** |
| Civil ConstructionCoal, Drilling, Extractive Industries and Metalliferous Mining | The CMM Service is provided on behalf of Higher Education and Skills.CMM Service Executive Officers can assist with questions on payable and nominal hours. | Name: Teresa SignorelloAddress: Holmesglen InstitutePO Box 42, Holmesglen VIC 3148Phone: (03) 9564 1987Email: teresa.signorello@holmesglen.edu.au Name: George AddaAddress: Box Hill InstitutePrivate Bag 2014, Box Hill VIC 3128Phone: (03) 9286 9880Email:g.adda@boxhill.edu.au |
| **Service Skills Organisation (SSO)** |
| PwC Skills forAustralia | This SSO is responsible for developing this **RII Resources and Infrastructure Industry Training Package** and can be contacted for further information.  | Phone: 1800 714 819See [PwC Skills for Australia website](https://www.skillsforaustralia.com/) for more information. |
| **National Register for VET in Australia** |
| Training.gov.au (TGA) | TGA is the Australian government’s official National Register of information on Training Packages, qualifications, courses, units of competency and RTOs. | See the [National Register](http://training.gov.au/) for more information. |
| **Australian Government** |
| Department of Education, Skills and Employment | The Commonwealth Department is responsible for national policies and programmes that help Australians access quality vocational education and training.  | See the [Commonwealth Department of Education, Skills and Employment website](https://www.dese.gov.au/programs-initiatives) for more information.  |
| **State Government** |
| Department of Education and Training (DET)  | DET is the State Training Authority responsible for supporting implementation of Vocational Education and Training (VET) in Victoria.  | (03) 9637 2000See the [Victorian Department of Education and Training website](http://www.education.vic.gov.au/) for more information. |
| **National VET Regulatory Authority** |
| Australian Skills Quality Authority (ASQA) | ASQA is the national regulator for Australia’s VET sector.  | Info line: 1300 701 801 See the [ASQA website](http://www.asqa.gov.au/) for more information. |
| **Victorian State VET Regulatory Authority** |
| Victorian Registration and Qualifications Authority (VRQA) | The VRQA is a statutory authority responsible for the registration and regulation of Victorian RTOs and for the regulation of apprenticeships and traineeships in Victoria. | (03) 9637 2806 See the [VRQA website](http://www.vrqa.vic.gov.au/) for more information.  |
| **Industry Regulatory Bodies** |
| Regulator Name | Regulator function relevant to the training products / industry | Contact details |
| Department of Environment, Land, Water & Planning. (for shot firing in relation to mines and/or quarries) | 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: 136 186DELWP’s website can be found [here](https://www2.delwp.vic.gov.au/) |

GLOSSARY

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| **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. |
| **Maximum Payable Hours** | The maximum number of hours the Victorian Government will subsidise under Skills First funding for the achievement of the minimum realistic vocational outcome of the qualification, as determined by the qualification packaging rules.  The Maximum Payable Hours do not cover every possible combination of core and elective units available for a specific qualification.   Minimum payable hours reflect a calculated minimum number of hours that could deliver a minimum realistic vocational outcome, based on efficiencies of contextualisation and integration. |
| **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. |
| **Nominal Hours** | Nominal hours reflect the anticipated time taken to deliver and assess the outcomes of a unit of competency excluding unsupervised delivery or the time taken for repeated practical application of skills. Nominal hours are determined by the Victorian State Training Authority (DET) and are primarily developed for funding purposes in Victoria. |