**Victorian Purchasing Guide**

**for**

**RII Resources and Infrastructure Industry  
Training Package**

**Release 8.0**

**May 2022**

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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 VPG Approved** | | Comments |
| --- | --- | --- | --- |
| RII Resources and Infrastructure Industry  Training Package  Release 8.0 | | 29 June 2022 | This Training Package release includes updates to a number of qualifications, units of competency and skill sets as noted below.   * 1 new qualification * 13 revised qualifications * 12 new units of competency * 6 units of competency updated to align content with industry skills needs and standards |
| RII Resources and Infrastructure Industry  Training Package  Release 7.0 | | 12 August 2021 | This Training Package release includes updates to a number of qualifications, units of competency and skill sets as noted below.   * 12 revised qualifications * 7 deleted qualifications * 14 new units of competency * 77 deleted units of competency * 15 units of competency updated to align content with industry skills needs and standards |
| RII Resources and Infrastructure Industry Training Package  Release 6.0 | | 14 May 2021 | This Training Package release includes updates to a number of qualifications and units of competency as noted below:   * 10 revised equivalent qualifications * 8 newly created units of competency * 2 non equivalent units of competency   159 equivalent units of competency updated to align content with industry skills and standards |
| RII Resources and Infrastructure Industry  Training Package  Release 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 |

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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 8.0** 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 8.0** 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 |
| RII20220 | Certificate II in Surface Extraction Operations | 255 | 270 |
| RII20320 | Certificate II in Underground Coal Mining | 305 | 320 |
| RII20420 | Certificate II in Underground Metalliferous Mining | 380 | 420 |
| RII20520 | Certificate II in Resource Processing | 325 | 340 |
| RII20620 | Certificate II in Mining/Field Exploration | 455 | 480 |
| RII20720 | Certificate II in Civil Construction | 490 | 520 |
| RII20819 | Certificate II in Bituminous Surfacing | 357 | 376 |
| RII20920 | Certificate II in Drilling Operations | 375 | 395 |
| RII21120 | Certificate II in Oil & Gas Drilling (Onshore) and Well Servicing | 350 | 370 |
| RII30120 | Certificate III in Surface Extraction Operations | 570 | 600 |
| RII30220 | Certificate III in Underground Coal Operations | 620 | 650 |
| RII30320 | Certificate III in Underground Metalliferous Mining | 640 | 670 |
| RII30420 | Certificate III in Resource Processing | 430 | 450 |
| RII30520 | Certificate III in Mining Exploration | 540 | 570 |
| RII30719 | Certificate III in Emergency Response and Rescue | 416 | 438 |
| RII30820 | Certificate III in Civil Construction Plant Operations | 1207 | 1270 |
| RII30920 | Certificate III in Civil Construction | 1144 | 1204 |
| RII31220 | Certificate III in Civil Foundations | 804 | 846 |
| RII31619 | Certificate III in Trenchless Technology | 830 | 874 |
| RII31820 | Certificate III in Drilling Operations | 530 | 555 |
| RII32020 | Certificate III in Drilling Oil & Gas (Onshore) | 390 | 410 |
| RII32220 | Certificate III in Well Servicing Operations | 430 | 450 |
| RII40120 | Certificate IV in Surface Extraction Operations | 820 | 860 |
| RII40220 | Certificate IV in Surface Coal Mining (Open Cut Examiner) | 630 | 660 |
| RII40320 | Certificate IV in Underground Metalliferous Mining Operations | 715 | 750 |
| RII40420 | Certificate IV in Underground Coal Operations | 740 | 780 |
| RII40520 | Certificate IV in Resource Processing | 540 | 570 |
| RII40720 | Certificate IV in Civil Construction | 817 | 860 |
| RII40820 | Certificate IV in Civil Construction Design | 827 | 870 |
| RII40920 | Certificate IV in Drilling Operations | 510 | 535 |
| RII41120 | Certificate IV in Drilling Oil & Gas (Onshore) | 415 | 435 |
| RII41220 | Certificate IV in Well Servicing Operations | 500 | 525 |
| RII41319 | Certificate IV in Emergency Response Coordination | 466 | 490 |
| RII41421 | Certificate IV in Civil Infrastructure Asset Management | 475 | 615 |
| RII50120 | Diploma of Surface Operations Management | 930 | 980 |
| RII50315 | Diploma of Minerals Processing | 855 | 900 |
| RII50420 | Diploma of Civil Construction Management | 969 | 1020 |
| RII50520 | Diploma of Civil Construction Design | 1482 | 1560 |
| RII50620 | Diploma of Drilling Operations | 760 | 800 |
| RII50820 | Diploma of Drilling Oil & Gas (Onshore) | 610 | 640 |
| RII50920 | Diploma of Underground Coal Mining Management | 705 | 740 |
| RII51020 | Diploma of Well Servicing Operations | 850 | 895 |
| RII60120 | Advanced Diploma of Metalliferous Mining | 1400 | 1470 |
| RII60220 | 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 |
| RII60520 | Advanced Diploma of Civil Construction Design | 988 | 1040 |
| RII60620 | Advanced Diploma of Civil Construction | 1330 | 1440 |
| RII60720 | Advanced Diploma of Surface Coal Mining Management | 1290 | 1360 |

UNITS OF COMPETENCY AND NOMINAL HOURS

| Unit Code | Unit Title | Nominal Hours |
| --- | --- | --- |
| RIIARO301 | Work safely in autonomous environments | 20 |
| RIIARO302 | Work safely with remotely piloted aircraft systems | 40 |
| RIIARO303 | Operate equipment in autonomous environments | 50 |
| RIIARO304 | Coordinate and interact with autonomous systems | 60 |
| RIIARO305 | Build and maintain routes for autonomous operations | 60 |
| RIIARO306 | Respond to obstructions to autonomous operations | 50 |
| RIIARO307 | Activate and deactivate autonomous systems | 60 |
| RIIARO401 | Supervise autonomous operations | 100 |
| RIIBEF201E | Plan and organise work | 20 |
| RIIBEF202E | Identify and rectify site operating problems | 40 |
| RIIBEF302E | Monitor site production activities | 20 |
| RIIBEF401E | Manage non-routine and complex technical situations | 80 |
| RIIBEF601E | Conduct business negotiations | 100 |
| RIIBEF602E | Establish and evaluate operational performance management systems | 120 |
| RIIBEF604E | Conduct a feasibility study | 100 |
| RIIBHD301E | Conduct surface blast hole drilling operations | 60 |
| RIIBHD302E | Conduct underground development drilling | 28 |
| RIIBHD303E | Conduct long hole drilling | 28 |
| RIIBLA201E | Support shotfiring operations | 30 |
| RIIBLA204E | Store, handle and transport explosives in underground coal mines | 30 |
| RIIBLA205E | Store, handle and transport explosives | 20 |
| RIIBLA301D | Conduct surface shotfiring operations | 50 |
| 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 |
| RIIBLA305D | Conduct secondary blasting | 35 |
| RIIBLA305E | Conduct secondary blasting | 35 |
| RIIBLA307E | Conduct a blast survey | 20 |
| RIIBLA401E | Manage blasting operations | 40 |
| RIIBLA402D | Monitor and control the effects of blasting on the environment | 40 |
| RIIBLA402E | Monitor and control the effects of blasting on the environment | 40 |
| RIIBLA403 | Design blasts | 40 |
| RIIBLA602E | Establish and maintain explosives safety and security management systems | 120 |
| RIICAM401 | Conduct a condition assessment of road pavements | 40 |
| RIICAM402 | Conduct a condition assessment of roadside infrastructure | 40 |
| RIICAM403 | Conduct a condition assessment of stormwater drainage | 40 |
| RIICAM404 | Conduct a condition assessment of civil structures | 40 |
| RIICAM405 | Conduct a condition assessment of civil foundations | 40 |
| RIICAM406 | Conduct a condition assessment of water and sewerage mains | 40 |
| RIICAM407 | Conduct a condition assessment of underground services | 40 |
| RIICAM408 | Conduct a condition assessment of open spaces | 40 |
| RIICAM409 | Manage civil infrastructure datasets | 40 |
| RIICAM410 | Maintain asset inventories | 20 |
| RIICAM501 | Analyse and interpret civil infrastructure asset datasets | 35 |
| RIICAM502 | Make decisions using civil infrastructure asset data | 40 |
| RIICBM201E | Strip pile heads | 20 |
| RIICBM301E | Maintain concrete bridges | 80 |
| RIICBM302E | Install pre-cast girders | 80 |
| RIICBM303E | Install pre-cast parapets | 80 |
| RIICBM304E | Operate bridge inspection units | 80 |
| RIICBM305E | Install pre-cast concrete bridge decks | 80 |
| RIICBM306E | Undertake concreting work on concrete bridges | 80 |
| RIICBM307E | 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 ope rations | 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 |
| RIICCM203E | Read and interpret plans and job specifications | 40 |
| RIICCM204E | Place and fix reinforcement materials | 40 |
| RIICCM205F | Carry out manual excavation | 8 |
| RIICCM206E | Support plant operations | 8 |
| RIICCM207E | Spread and compact materials manually | 12 |
| RIICCM208E | Carry out basic levelling | 16 |
| RIICCM209E | Carry out concrete work | 40 |
| RIICCM210E | Install trench support | 16 |
| RIICCM211E | 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 |
| RIICCR601D | Manage customer relationships | 60 |
| RIICFW301E | Construct underpinning | 60 |
| RIICFW302E | Install temporary and permanent rock anchors | 24 |
| RIICFW303E | Install primary ground supports | 24 |
| RIICFW304E | Conduct pile driving operations | 40 |
| RIICFW305E | Conduct cast in-situ pilings operations | 40 |
| RIICFW306E | Direct pile driving operations | 40 |
| RIICFW307E | Direct cast in-situ piling operations | 40 |
| RIICFW308 | Conduct screw piling operations | 40 |
| RIICOM201E | Communicate in the workplace | 20 |
| RIICOM301E | Communicate information | 30 |
| RIICOM302D | Communicate workplace information | 20 |
| RIICPL301E | Install water mains pipelines | 40 |
| RIICPL302E | Install stormwater systems | 40 |
| RIICPL303E | Install sewer pipelines | 40 |
| RIICPL304E | Install pre-cast gully pits | 40 |
| RIICPL305E | Install pre-cast access chambers | 40 |
| RIICPL401E | Supervise the installation of underground services using open excavation | 60 |
| RIICRC201D | Repair potholes | 36 |
| RIICRC201E | Repair potholes | 36 |
| RIICRC202E | Install signs | 16 |
| RIICRC203E | Install sub-soil drainage | 20 |
| RIICRC204E | Install and maintain roadside fixtures | 30 |
| RIICRC205E | Install utility poles | 40 |
| RIICRC206E | Install pre -cast concrete crash barriers | 40 |
| RIICRC207E | Install noise barriers | 40 |
| RIICRC208D | Lay pipes | 40 |
| RIICRC208E | Lay pipes | 40 |
| RIICRC209E | Lay reinforced concrete box culverts | 40 |
| RIICRC301E | Maintain drainage systems | 16 |
| RIICRC302E | Place and form concrete kerb, channel and fixtures | 36 |
| RIICRC303E | Lay pavers | 24 |
| RIICRC304E | Maintain sealed roads | 32 |
| RIICRC305E | Conduct road construction paverscreeding operations | 58 |
| RIICRC306E | Conduct earthworks | 80 |
| RIICRC307E | Conduct road pavement construction | 24 |
| RIICRC308E | Conduct paver operations | 80 |
| RIICRC309E | Conduct stabiliser operations | 80 |
| RIICRC310E | Construct and maintain roads | 60 |
| RIICRC311E | Conduct concrete road paver operations | 60 |
| RIICRC312E | Set up and maintain concrete paver stringlines | 40 |
| RIICRC313E | Conduct concrete road curing and texturing operations | 24 |
| RIICRC314E | Handle concrete materials | 24 |
| RIICRC315E | Use concreting materials and equipment | 60 |
| RIICRC316E | Place and compact concrete | 170 |
| RIICRC317E | Finish concrete pavements | 40 |
| RIICRC318E | Cure concrete | 16 |
| RIICRC319E | Saw and cut concrete pavements to initiate planned cracks | 16 |
| RIICRC320E | Seal concrete pavements | 12 |
| RIICRC321E | Use automated paving guidance systems | 80 |
| RIICRC322E | Receive, check and record concrete deliveries | 8 |
| RIICRC323E | Insert tie bars in fresh concrete | 8 |
| RIICRC401E | Supervise flexible pavement construction | 50 |
| RIICRC402E | Supervise rigid pavement construction | 50 |
| RIICRC403E | Supervise the stabilisation of materials | 50 |
| RIICRC404E | Inspect and report on pavement condition | 40 |
| RIICRC405E | Carry out pavement condition measurement | 50 |
| RIICRC406E | Supervise pavement maintenance | 50 |
| RIICRM201F | Escort mobile works | 24 |
| RIICRM202E | Handle and store road marking materials | 8 |
| RIICRM203E | Conduct pedestrian road marking operations | 24 |
| RIICRM204E | Prepare surfaces for road marking | 16 |
| RIICRM205E | Conduct road marking measuring operations | 16 |
| RIICRM206E | Conduct airless and atomised spraying operations | 20 |
| RIICRM207E | Install raised pavement markers | 16 |
| RIICRM301E | Conduct ride on road marking operations | 16 |
| RIICRM302E | Conduct long line road marking operations | 40 |
| RIICRM303E | Conduct thermo plastic road marking operations | 30 |
| RIICSG401E | Supervise civil concrete structure construction | 100 |
| RIICSG402E | Supervise civil steel structure construction | 100 |
| RIICSG403E | Supervise civil timber structure construction | 100 |
| RIICSG404E | Supervise civil masonry, crib and gabion structure construction | 100 |
| RIICSG405E | Carry out inspections of civil structures | 100 |
| RIICSG406E | Supervise maintenance of civil structures | 100 |
| RIICTB201E | Maintain timber bridges | 64 |
| RIICTB202E | Apply bridge durability treatments | 40 |
| RIICTB203E | Produce bridge drawings and sketches | 24 |
| RIICTB301E | Undertake visual inspections | 64 |
| RIICTB302E | Install temporary support members | 40 |
| RIICTB303E | Erect temporary modular support systems (baileys) on existing bridges | 48 |
| RIICTB304E | Install or replace sub-structure members | 48 |
| RIICTB305E | Install or replace super-structure members | 48 |
| RIICTB306E | Splice and connect timber members | 40 |
| RIICTB307E | Assemble and disassemble temporary modular bridges | 48 |
| RIICTB308E | Install or replace truss members | 40 |
| RIICTB309E | Construct, maintain and remove coffer dams | 60 |
| RIICTB310E | Construct specialised timber deck systems | 64 |
| RIICTC301E | Install tunnelling constructions services | 80 |
| RIICTC302E | Line tunnels | 80 |
| RIICTC303E | Excavate tunnel by machine | 32 |
| RIICTC304E | Muck out tunnel earthworks | 16 |
| RIICTC305E | Construct portals | 24 |
| RIICTC306 | Conduct tunnel boring machine operations | 200 |
| RIICTC401E | Supervise tunnel construction | 100 |
| RIICTC402 | Supervise tunnel boring machine operations | 200 |
| 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 |
| RIICTT401E | Supervise the installation of underground services using trenchless technology | 60 |
| RIICTT402E | Supervise repair and rehabilitation of underground services using trenchless technology | 60 |
| RIICWD501E | Prepare detailed design of foundations | 100 |
| RIICWD502E | Prepare detailed design of lighting | 100 |
| RIICWD503E | Prepare traffic management plans and traffic guidance schemes | 50 |
| RIICWD504E | Prepare detailed design of environmental controls | 100 |
| RIICWD505E | Prepare detailed design of landscaping | 100 |
| RIICWD506E | Prepare detailed design of canals | 100 |
| RIICWD508E | Prepare detailed design of rural roads | 100 |
| RIICWD509E | Prepare detailed design of urban roads | 100 |
| RIICWD510E | Prepare detailed design of busways | 100 |
| RIICWD511E | Prepare detailed design of sub-divisions | 100 |
| RIICWD512E | Prepare detailed design of motorways and interchanges | 100 |
| RIICWD513E | Prepare detailed design of rail civil infrastructure | 100 |
| RIICWD514E | Prepare detailed design of dams | 100 |
| RIICWD515E | Prepare detailed design of airfield civil works | 100 |
| RIICWD516E | Prepare detailed design of bicycle ways | 50 |
| RIICWD517E | Prepare detailed design of industrial hardstands | 100 |
| RIICWD518E | Prepare detailed design of open car parks | 50 |
| RIICWD519E | Prepare detailed design of intermodal facilities civil works | 100 |
| RIICWD520E | Prepare detailed design of rigid pavements | 100 |
| RIICWD521E | Prepare detailed design of flexible pavements | 100 |
| RIICWD522E | Prepare stabilised material mix design | 100 |
| RIICWD523E | Prepare asphalt mix design | 60 |
| RIICWD524E | Prepare design of spray seal surfacing | 60 |
| RIICWD525E | Select pavement surfacing | 60 |
| RIICWD526E | Prepare detailed traffic analysis | 100 |
| RIICWD527E | Prepare detailed design of traffic signals | 100 |
| RIICWD528E | Prepare detailed design of traffic management systems | 100 |
| RIICWD529E | Prepare detailed design of underground services | 100 |
| RIICWD530E | Prepare detailed design of surface drainage | 100 |
| RIICWD531E | Prepare detailed design of subsurface drainage | 100 |
| RIICWD532E | Prepare detailed design of tunnels | 100 |
| RIICWD533E | Prepare detailed design of civil concrete structures | 100 |
| RIICWD534E | Prepare detailed design of civil steel structures | 100 |
| RIICWD535E | Prepare detailed design of civil timber structures | 100 |
| RIICWD536E | Prepare detailed design of civil masonry, crib and gabion structures | 100 |
| RIICWD537E | Prepare detailed design of marine structures civil works | 120 |
| RIICWD538 | Prepare traffic management plans and traffic guidance schemes for high volume roads | 50 |
| RIICWD539 | Prepare traffic management plans and traffic guidance schemes for motorways and freeways | 50 |
| RIICWD601E | Manage civil works design processes | 300 |
| RIICWM401E | Supervise civil works | 80 |
| RIICWM402E | Supervise civil works contractors | 100 |
| RIICWM501E | Implement civil construction plans | 120 |
| RIICWM502E | Implement civil works maintenance programs | 120 |
| RIICWM503E | Prepare civil works cost estimates | 100 |
| RIICWM504E | Prepare civil works bill of quantities | 100 |
| RIICWM505E | Prepare civil works schedule of rates | 100 |
| RIICWM601E | Establish civil construction plans | 300 |
| RIICWM602E | Establish civil works maintenance programs | 300 |
| RIIDML401E | Supervise demolitions | 100 |
| RIIEGS202E | Conduct field work | 40 |
| RIIEGS301D | Operate and maintain instruments and field equipment | 40 |
| RIIEGS301E | Operate and maintain instruments and field equipment | 40 |
| RIIEGS303E | Provide geological field assistance | 40 |
| RIIEGS304E | Mobilise equipment and materials | 40 |
| RIIEGS305E | Navigate in remote or trackless areas | 40 |
| RIIENV201E | Identify and assess environmental and heritage concerns | 20 |
| 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 |
| RIIERR203E | Escape from hazardous situations unaided | 40 |
| RIIERR301E | Respond to work site incidents | 20 |
| RIIERR303E | Operate in self-contained regenerative oxygen breathing apparatus | 20 |
| 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 |
| 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 |
| 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 |
| 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 systems | 120 |
| RIIHAN203D | Conduct lifting operations | 40 |
| RIIHAN203E | Conduct lifting operations | 40 |
| RIIHAN208D | Perform dogging | 80 |
| RIIHAN208E | Perform dogging | 80 |
| RIIHAN213E | Work effectively in the drilling industry | 50 |
| RIIHAN305D | Operate a gantry or overhead crane | 40 |
| RIIIMG301D | Maintain site records | 10 |
| RIIIMG301E | Maintain site records | 10 |
| RIILAT401D | Provide leadership in the supervision of Indigenous employees | 50 |
| RIILAT401E | Provide leadership in the supervision of Indigenous employees | 50 |
| RIILAT402D | Provide leadership in the supervision of diverse work teams | 50 |
| RIILAT402E | Provide leadership in the supervision of diverse work teams | 50 |
| RIILAT601E | Manage group processes | 120 |
| RIIMCO303E | Conduct auger miner operations | 80 |
| RIIMCU208E | Conduct basic strata control operations | 40 |
| RIIMCU209E | Conduct roadway maintenance | 20 |
| RIIMCU213E | Conduct feeder breaker operations | 40 |
| RIIMCU214E | Conduct ventilation operations | 40 |
| RIIMCU217 | Apply spontaneous combustion management measures | 40 |
| RIIMCU218 | Work safely with polymeric chemicals in underground coal mining | 20 |
| 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 ope rations | 120 |
| RIIMCU308E | Install and recover longwall equipment | 40 |
| RIIMCU309E | Operate bre aker line supports | 40 |
| RIIMCU310E | Conduct flexible conveyor train (FCT) operations | 40 |
| RIIMCU311E | Monitor control processes | 40 |
| RIIMCU312 | Conduct polymeric chemical operations in underground coal mining | 60 |
| RIIMCU313 | Mix and pump polymeric chemicals in underground coal mining | 50 |
| RIIMCU314 | Transport and store polymeric chemicals in underground coal mining | 50 |
| RIIMCU401E | Conduct special roadway operations | 60 |
| RIIMCU403E | Apply and monitor the gas 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 |
| RIIMCU409 | Apply and monitor polymeric chemical management plans | 80 |
| RIIMCU501E | Implement the spontaneous combustion management plan | 60 |
| RIIMCU502E | Implement the gas 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 |
| RIIMCU605E | Establish and maintain inrush management systems | 100 |
| RIIMCU606E | Establish and maintain the mining method and strata management systems2729 | 80 |
| RIIMEX201E | Suppress dust in open-cut environments | 30 |
| RIIMEX303 | Conduct local geotechnical risk control in surface operations | 80 |
| RIIMEX402E | Supervise dredging operations | 40 |
| RIIMEX403E | Supervise canal construction | 100 |
| RIIMEX404E | Apply and monitor systems for stable mining | 80 |
| RIIMEX405E | Apply and monitor systems and methods of surface coal mining | 80 |
| RIIMEX407 | Apply and monitor the ground control management plan | 80 |
| RIIMEX408 | Supervise overburden dump operations | 80 |
| RIIMEX503E | Manage dredging operations | 60 |
| RIIMEX504 | Implement the ground control management plan | 90 |
| RIIMPO310F | Conduct grader operations | 40 |
| RIIMPO316E | Conduct self-propelled compactor operations | 40 |
| RIIMPO317F | Conduct roller operations | 80 |
| RIIMPO320F | Conduct civil construction excavator operations | 200 |
| RIIMPO321F | Conduct civil construction wheeled front end loader ope rations | 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 |
| RIIMPO327E | Conduct pipe layer operations | 80 |
| RIIMPO329F | Conduct dragline operations | 120 |
| RIIMPO331E | Conduct operations with stockpile dozer | 40 |
| RIIMPO334E | Conduct skid steer loader operations using attachments | 80 |
| RIIMPO337E | Conduct articulated haul truck operations | 40 |
| RIIMPO339A | Conduct side tipper operations | 40 |
| RIIMPO402D | Apply the principles of earthworks construction | 100 |
| RIIMPO501D | Implement, monitor, rectify and report on mobile plant and equipment systems | 80 |
| RIIMSM307D | 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 |
| RIINHB208E | Assist diamond core drilling | 40 |
| RIINHB210E | Assist surface directional drilling | 40 |
| RIINHB211E | Assist mud rotary 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 |
| RIINHB304E | Conduct reverse circulation drilling operations | 65 |
| RIINHB306E | Conduct large diameter auger drilling | 65 |
| RIINHB311E | Conduct mud rotary drilling operations | 65 |
| RIINHB320D | Construct monitoring bores | 65 |
| RIINHB322E | Construct multiple aquifer production bores | 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 |
| RIINHB411E | Construct artesian (flowing) aquifer bores | 65 |
| RIINHB501F | Plan drilling | 60 |
| 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 |
| RIIOGD302F | Assist in running casing | 30 |
| RIIOGD303F | Trip pipe | 30 |
| 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 |
| 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 |
| 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 |
| RIIPEO201E | Conduct conveyor operations | 40 |
| RIIPEO202E | Provide deck support for conveyor-car high wall mining operations | 40 |
| 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 |
| RIIPRM501E | Implement, monitor, rectify and report on contracts | 80 |
| 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 |
| RIIRAI505D | Implement the surface mine mechanical plant management plan | 100 |
| RIIRAI507D | Implement the underground coal mine mechanical plant management plan | 80 |
| RIIRAI508E | Implement mine services systems | 80 |
| RIIRAI510D | Implement, monitor, rectify and report on interfaces between electrical and mechanical componentry | 80 |
| 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 |
| RIIRAI609D | Establish and maintain electrical installations, reticulation and protection system | 120 |
| RIIRAI610D | Establish and maintain mechanical standard/engineering practices for transport/ production equipment | 120 |
| RIIRAI611D | Establish and maintain a surface mine mechanical plant management system3473 | 100 |
| RIIRIS201E | Conduct local risk control | 20 |
| RIIRIS202D | Respond to site based spills | 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 |
| RIIRIS403D | Manage and coordinate spill response | 50 |
| RIIRIS403E | Manage and coordinate spill response | 50 |
| RIIRIS501E | Implement and maintain management systems to control risk | 80 |
| RIIRIS601D | Establish and maintain the risk management system | 100 |
| RIIRIS601E | Establish and maintain risk management systems | 100 |
| RIIRTM201E | Position, set-up and operate variable message signs | 40 |
| RIIRTM202E | Position, set-up and operate portable traffic signals | 40 |
| RIIRTM203E | Work as a safety observer/spotter | 20 |
| RIIRTM301E | Operate truck or trailer mounted attenuators | 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 |
| RIISAM205D | Cut, weld and bend materials | 40 |
| 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 |
| RIISAM215E | Carry out drilling industry operational maintenance | 40 |
| RIISAM301F | Test operational functions of vehicles and equipment | 30 |
| RIISAM303E | Shutdown dredge for operator maintenance | 40 |
| RIISAM304E | Install, commission and maintain major conveyor equipment and systems | 80 |
| 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 |
| RIISAM401E | Apply site plant, equipment and infrastructure maintenance management plans | 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 |
| RIISRM301E | Blend stockpile materials | 20 |
| RIISRM302E | Conduct stockpile reclaiming operations | 40 |
| RIISRM303E | Move and position materials to form stockpiles | 24 |
| RIISRM304E | Maintain stockpiles | 20 |
| RIISRM501E | Implement stockpile management plans | 60 |
| RIISRM502E | Design stockpile formations and reclaiming systems | 40 |
| RIISRM601D | Establish and maintain the stockpile management system | 120 |
| RIISRM601E | Establish and maintain stockpile management systems | 120 |
| RIISTD201D | Read and interpret maps | 40 |
| RIISTD201E | Read and interpret maps | 40 |
| RIISTD202E | Collect routine site samples | 40 |
| RIISTD302E | Process data and maintain accurate records | 40 |
| RIISTD401 | Monitor quarry laboratory operations and the quality of results | 60 |
| RIIUND202E | Operate from elevated work platform underground | 30 |
| RIIUND205E | Respond to a workforce incident | 32 |
| 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 |
| RIIUND310E | Apply shotcrete 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 |
| RIIVEH201E | Operate a light vehicle | 30 |
| RIIVEH202F | Operate a medium vehicle | 30 |
| RIIVEH203E | Operate a light vehicle underground | 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 |
| RIIWBP201E | Treat and dispose of rejects and tailings | 30 |
| RIIWBP202E | Distribute tailings | 16 |
| RIIWBP203E | Monitor tailings dam environments | 16 |
| 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 |
| RIIWHS207 | Control traffic on high volume roads | 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 |
| RIIWHS304 | Implement traffic management plans on high volume roads | 20 |
| RIIWHS305 | Implement traffic management plans on motorways and freeways | 20 |
| 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 |
| RIIWHS601E | Establish and maintain the WHS management system | 120 |
| RIIWMG203E | Drain and dewater civil construction sites | 20 |
| RIIWMG301E | Control construction site water tables | 24 |
| 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 |
| RIIBEF201D | Plan and organise work | 20 |
| RIIBEF301D | Run on-site operations | 40 |
| RIIBEF402D | Supervise on-site operations | 50 |
| RIIBHD401D | Supervise blast hole drilling operations | 40 |
| RIIBLA202F | Support underground shotfiring operations | 20 |
| RIIBLA203E | Conduct mobile mixing of explosives | 30 |
| RIIBLA205D | Store, handle and transport explosives | 20 |
| RIIBLA602D | Establish and maintain a blasting system | 120 |
| RIICAR301D | Rehabilitate exploration site | 40 |
| RIICAR302D | Rehabilitate small mine site | 40 |
| RIICCM201D | Carry out measurements and calculations | 20 |
| RIICCM203D | Read and interpret plans and job specifications | 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 |
| RIICOM201D | Communicate in the workplace | 20 |
| RIICPL301D | Install water mains pipelines | 40 |
| RIICPL302D | Install stormwater systems | 40 |
| RIICPL303D | Install sewer pipelines | 40 |
| RIICPL304D | Install pre -cast gully pits | 40 |
| RIICRC203D | Install sub-soil drainage | 20 |
| RIICWD507D | Prepare detailed geotechnical design | 100 |
| RIIDES301D | Inspect, test and maintain diesel engine systems and their ancillary systems5718 | 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 systems5748 | 40 |
| RIIDES307D | Test, determine the cause and rectify excessive emission levels on diesel | 20 |
| RIIEGS201D | Operate in isolated and remote situations | 40 |
| RIIEGS302D | Plan and undertake field trip | 40 |
| RIIENV201D | Identify and assess environmental and heritage concerns | 20 |
| RIIENV501D | Implement and maintain environmental management plan | 120 |
| RIIENV601D | 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 |
| RIIERR204E | Provide aided rescue to endangered personnel | 40 |
| RIIERR205D | Apply initial response First Aid | 20 |
| RIIERR302E | Respond to local emergencies and incidents | 20 |
| RIIERR304D | Control emergencies and critical situations | 30 |
| RIIERR309D | Establish and operate from fresh air base | 20 |
| RIIERR402D | Apply and monitor underground coal mine emergency preparedness and response systems | 60 |
| RIIERR404D | Apply and monitor underground Metalliferous mine emergency preparedness and response systems | 60 |
| RIIERR503D | Implement emergency preparedness and response systems | 70 |
| RIIGOV501D | Identify, implement and maintain legal compliance requirements | 80 |
| RIIGOV601D | Establish, maintain and develop a statutory compliance management system | 120 |
| RIIHAN201E | Operate a forklift | 40 |
| RIIHAN204D | Load and unload cargo/goods | 20 |
| RIIHAN205D | Secure cargo | 12 |
| RIIHAN206E | Transport plant, equipment and personnel | 30 |
| RIIHAN209E | Perform basic rigging | 40 |
| RIIHAN210D | Perform intermediate rigging operations | 40 |
| RIIHAN211D | Conduct basic scaffolding operations | 56 |
| RIIHAN212E | Conduct non-slewing crane operations | 40 |
| RIIHAN301E | Operate elevating work platform | 40 |
| RIIHAN302D | Conduct intermediate scaffolding operations | 40 |
| RIIHAN304E | Conduct slewing crane operations | 80 |
| 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 |
| RIIMCO201D | Conduct spreader operations | 60 |
| RIIMCO302D | Conduct surface miner operations | 60 |
| 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 |
| RIIMCU210D | Conduct stonedusting operations | 20 |
| RIIMCU211D | Install and maintain explosion barriers | 20 |
| RIIMCU212E | Construct and maintain basic ventilation devices | 20 |
| RIIMCU215D | Operate longwall ancillary equipment | 40 |
| RIIMCU216D | Maintain lamp cabin operations | 40 |
| RIIMCU404E | Apply and monitor the gas drainage management plan | 60 |
| RIIMCU405D | Apply and monitor the outburst management plan | 60 |
| RIIMCU503D | Implement the gas drainage management plan | 60 |
| RIIMCU504D | Implement the outburst management plan | 60 |
| RIIMCU603D | Establish and maintain the gas drainage management plan | 80 |
| RIIMCU604D | Establish and maintain the outburst management plan | 80 |
| RIIMEX203D | Break oversize rock | 32 |
| RIIMEX204D | Conduct workboat/barge operations | 30 |
| RIIMEX301D | Conduct dredging operations | 40 |
| RIIMEX302D | Assess ground conditions | 20 |
| RIIMEX401D | Apply pit plan | 190 |
| RIIMEX406D | Apply and monitor mine transport systems and production equipment 6147 Assessment | 60 |
| RIIMEX501D | Implement pit plan | 90 |
| RIIMEX502D | Implement systems and methods of mining | 70 |
| 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 systems6186 Assessment | 120 |
| 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 ope rations | 40 |
| RIIMPO309F | Conduct wheeled dozer operations | 40 |
| RIIMPO312E | Conduct scraper operations | 40 |
| RIIMPO313E | Conduct face loader operations | 40 |
| RIIMPO315E | Conduct tractor operations | 60 |
| RIIMPO318F | Conduct civil construction skid steer loader operations | 80 |
| RIIMPO319E | Conduct backhoe/loader operations | 200 |
| RIIMPO325E | Conduct civil construction scraper operations | 160 |
| RIIMPO326E | Conduct water vehicle operations | 40 |
| RIIMPO328E | Conduct continuous bucket trencher operations | 40 |
| RIIMPO333E | Conduct underground load, haul and dump truck operations | 80 |
| RIIMPO335E | Conduct skid steer loader operations without attachments | 60 |
| RIIMPO336E | Conduct belly dump truck operations | 40 |
| RIIMPO338E | Conduct rigid haul truck operations | 40 |
| RIIMPO401D | Supervise mobile plant operations | 40 |
| RIIMPO403D | Monitor interaction of heavy and light vehicles and mining equipment.6397 Assessment | 60 |
| RIIMPO502D | Manage the interaction of heavy and light vehicles and mining equipment6403 Assessment | 100 |
| RIINHB206E | Assist large diameter auger drilling | 40 |
| RIINHB302D | Conduct reaming | 65 |
| RIINHB303D | Install product pipe | 40 |
| RIINHB305E | Conduct continuous flight 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 |
| RIINHB312D | Conduct raise boring | 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 |
| RIINHB323D | Conduct horizontal directional drilling | 65 |
| RIINHB403D | Supervise geotechnical drilling operations | 50 |
| RIINHB412D | Construct geothermal wells | 65 |
| RIIOGD301E | Conduct and maintain derrick operations | 50 |
| RIIOGD304D | Apply effective coal seam gas control practices | 40 |
| RIIOGD504D | Manage drilling operations | 80 |
| 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 |
| RIIOGN303D | Operate mud systems | 40 |
| RIIPBE201D | Conduct aeration process | 28 |
| RIIPBE202D | Conduct digestion process | 32 |
| RIIPBE203D | Conduct precipitation operations | 32 |
| RIIPBE204D | Conduct reduction process | 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 |
| RIIPBE308D | Conduct thickening and clarifying process | 24 |
| RIIPBE309D | Conduct wet gravity separation | 28 |
| RIIPBE310D | Conduct flotation process | 38 |
| RIIPBE311D | Conduct magnetic separation | 28 |
| 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 |
| RIIPGP201D | Conduct pump operations | 16 |
| RIIPGP202D | Handle reagents | 28 |
| RIIPGP203D | Operate compressors | 24 |
| 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 |
| RIIPRE301D | Conduct electrowinning/electro-refining operations | 36 |
| RIIPRE302D | Conduct elution processes | 32 |
| RIIPRE303D | Conduct gold room operations | 40 |
| 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 |
| RIIPSM302D | Cast ingots | 20 |
| RIIPSM304D | Operate furnaces | 32 |
| RIIQUA201D | Maintain and monitor site quality standards | 20 |
| RIIQUA601D | 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 |
| RIIRAI506D | Implement, monitor, rectify and report on inventory control system | 80 |
| RIIRAI509D | Implement mine fixed plant and infrastructure systems | 80 |
| RIIRAI601D | Establish and maintain the site infrastructure and fixed plant systems | 120 |
| RIIRAI607D | Establish quarry operations | 100 |
| RIIRAI608D | Establish quarry development | 180 |
| RIIRIS201D | Conduct local risk control | 20 |
| RIISAM201D | Handle resources and infrastructure materials and safely dispose of nontoxic materials | 16 |
| RIISAM203D | Use hand and power tools | 80 |
| RIISAM204D | Operate small plant and equipment | 20 |
| RIISAM315A | Manage tyre, wheel and rim assembly applications | 40 |
| RIISDM501D | Conduct mine surveying operations | 80 |
| RIISRM401D | Apply and monitor the site stockpile management plan | 60 |
| RIISTD202D | Collect routine site samples | 40 |
| RIISTD301D | Take environmental samples and measurements | 120 |
| RIIUMM201D | Install ground support | 30 |
| RIIUMM202D | Install and maintain vent | 24 |
| RIIUMM203D | Prepare and perform manual scaling operations | 14 |
| 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 |
| RIIUND204D | Refuel vehicles/machines underground | 32 |
| RIIUND206D | Install hand held underground ground support | 20 |
| RIIUND305D | Recover underground equipment | 40 |
| RIIUND307D | Conduct tele-remote operations | 28 |
| RIIUND309D | Conduct mechanical underground ground support drilling and installation7038 | 40 |
| RIIUND602D | Establish and maintain mine services systems | 120 |
| RIIUND603D | Manage, operate and maintain the mine ventilation system | 60 |
| 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 |
| RIIWHS201D | Work safely and follow WHS policies and procedures | 20 |
| RIIWHS202D | Enter and work in confined spaces | 30 |
| RIIWHS404D | Implement and monitor health and hygiene management systems | 50 |
| RIIWHS405D | Maintain standard procedures and safe working practices | 20 |
| RIIWHS601D | Establish and maintain the WHS management system | 120 |
| 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 |
| RIIWMG302D | Reclaim and treat water | 20 |
| RIIWMG401D | Apply and monitor the site water management plan | 60 |
| RIIWMG501D | Implement the site water management plan | 70 |
| RIIWMG601D | Establish and maintain water management system | 120 |

CONTACTS AND LINKS

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| **Curriculum Maintenance Manager (CMM)** | | |
| Civil Construction  Coal, 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 Signorello Address: PO Box 42 Holmesglen, VIC 3148  Phone: 03 9564 1987  Email: [teresa.signorello@holmesglen.edu.au](mailto:teresa.signorello@holmesglen.edu.au)  Name : George Ada Address: Box Hill Institute  Private Bag 2014, Box Hill VIC 3128  Phone: 03 9286 9880  Email: [g.adda@boxhill.edu.au](mailto:g.adda@boxhill.edu.au) |
| **Service Skills Organisation (SSO)** | | |
| PwC Skills for Australia | This SSO is responsible for developing this **RII Resources and Infrastructure Industry Training Package** and can be contacted for further information. | Phone: 1800 714 819  See [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/) 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 2000  See 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** | | |
| 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: 136 186  DELWP’s website can be found [***here***](https://www2.delwp.vic.gov.au/) |
| Victorian Drillers’ Licensing Board Secretariat | Licensing is compulsory for drilling wells or bores to access water from underground. Please contact Southern Rural Water | Phone: 1300 139  Southern Rural Water’s website can be found [***here***](http://www.srw.com.au/) |
| WorkSafe Victoria  (for shot firing in relation to sectors other than mines and/or quarries) Licensing Branch | WorkSafe needs to provide written verification before High Risk Work Units can be added to an RTO’s scope of registration. | Info Line: 1800 136 089  WorkSafe Victoria’s website can be found [***here***](https://www.worksafe.vic.gov.au/) |
| Australian Drilling Industry Training Committee Ltd | Information on the ‘National Water Well Drillers’ Licensing System’ | (02) 9428-3444  ADITC’s website can be found [***here***](http://www.aditc.com.au/) |
| Minerals & Petroleum Regulation Branch | Information to undergo assessment by the ‘Quarry Managers’ Advisory Panel’ to gain certification as a quarry manager. | (03) 9412-4011 |

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. |