

Case for Endorsement

1H New and Emerging Technology

3B Metalliferous Mining

3C Extractive

October 2020



Executive summary

Introduction

This Case for Endorsement outlines the rationale, evidence and industry support for modifications to proposed training products relating to the following projects that comprise RII Resources and Infrastructure Industry Training Package Version 7.0.

- 1H New and Emerging Technology
- 3B Metalliferous Mining
- 3C Extractive

It builds on the consultations undertaken by PwC's Skills for Australia in the Case for Change for this project, which was submitted to the Australian Industry and Skills Committee (AISC) in August 2019.

This Case for Endorsement demonstrates how the proposed training products align with the Council of Australian Governments (COAG) Industry and Skills Council reforms to Training Packages, and other principles for quality that inform our training product development work.

The Coal Mining, Extractive and Metalliferous Mining Industry Reference Committees (the Mining and Extractive IRCs) are satisfied that the level and scope of stakeholder consultation was commensurate with the changes to training product and the size and profile of the industry, to ensure the needs of learners, industry and workers are met. It is also satisfied that there is strong industry support for these changes and that the proposed modifications will ensure that the RII Resources and Infrastructure Industry Training Package continues to meet the needs of learners and workers in the industry.

Structure of the report

We have structured this Case for Endorsement around the required elements of the Case for Endorsement template. These key elements are:

- A. Administrative details of the Case for Endorsement
- B. Description of the work and request for approval
- C. Evidence of industry support
- D. Industry expectations about training delivery
- E. Implementation of the new Training Package
- F. Quality assurance reports
- G. Implementation of the COAG Industry and Skills Council reforms to Training Packages
- H. A copy of the full content of the proposed training package components.

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A. Administrative details

Names of allocated Industry Reference Committees (IRCs)

Coal Mining IRC

Extractive IRC

Metalliferous Mining IRC

Name of Skills Service Organisation (SSO)

PwC's Skills for Australia

Table 1 Training products submitted for approval

Abbreviation	Mapping	Definition
E	Equivalent	Where the workplace outcomes of the superseded and superseding training package components are equivalent.
NE	Not equivalent	Where a training package component is superseded, and the workplace outcome of the component has changed.
NC	Newly created	Where the training package component has been created to address an emerging skill or task required by industry.
D	Deleted	Where a training package component is deleted as the skill or task is no longer required by industry.

Current code	Current title	New code	New title	Mapping
3B Metalliferous Mining				
8 newly created units of competency submitted for endorsement				
N/A	N/A	RIIARO301	Work safely in autonomous environments	NC
N/A	N/A	RIIARO302	Work safely with remotely piloted aircraft systems	NC
N/A	N/A	RIIARO303	Operate equipment in autonomous environments	NC
N/A	N/A	RIIARO304	Coordinate and interact with autonomous systems	NC
N/A	N/A	RIIARO305	Build and maintain routes for autonomous operations	NC
N/A	N/A	RIIARO306	Respond to obstructions to autonomous operations	NC
N/A	N/A	RIIARO307	Activate and deactivate autonomous machinery	NC
N/A	N/A	RIIARO401	Supervise autonomous operations	NC
3B Metalliferous Mining				
7 updated qualifications submitted for endorsement				
RII20415	Certificate II in Underground Metalliferous Mining	RII20420	Certificate II in Underground Metalliferous Mining	E

Administrative details

Current code	Current title	New code	New title	Mapping
RII20515	Certificate II in Resource Processing	RII20520	Certificate II in Resource Processing	E
RII30315	Certificate III in Underground Metalliferous Mining	RII30320	Certificate III in Underground Metalliferous Mining	E
RII30415	Certificate III in Resource Processing	RII30420	Certificate III in Resource Processing	E
RII40315	Certificate IV in Underground Metalliferous Mining Operations	RII40320	Certificate IV in Underground Metalliferous Mining Operations	E
RII40515	Certificate IV in Resource Processing	RII40520	Certificate IV in Resource Processing	E
RII60115	Advanced Diploma of Metalliferous Mining	RII60120	Advanced Diploma of Metalliferous Mining	E
3 deleted qualifications submitted for endorsement				
RII30615	Certificate III in Small Mining Operations	N/A	N/A	D
RII50215	Diploma of Underground Metalliferous Mining Management	N/A	N/A	D
RII50315	Diploma of Minerals Processing	N/A	N/A	D
4 updated units of competency submitted for endorsement				
RIIWBP201D	Treat and dispose of rejects and tailings	RIIWBP201E	Treat and dispose of rejects and tailings	E
RIIWBP202D	Distribute tailings	RIIWBP202E	Distribute tailings	E
RIIWBP203D	Monitor tailings dam environment	RIIWBP203E	Monitor tailings dam environment	E
RIIRAI508D	Implement mine services systems	RIIRAI508E	Implement mine services systems	E
5 newly created units of competency submitted for endorsement				
N/A	N/A	RIIMCU218	Work safely with polymeric chemicals in underground coal mining	NC
N/A	N/A	RIIMCU312	Conduct polymeric chemical operations in underground coal mining	NC
N/A	N/A	RIIMCU313	Mix and pump polymeric chemicals in underground coal mining	NC
N/A	N/A	RIIMCU314	Transport and handle polymeric chemicals in underground coal mining	NC
N/A	N/A	RIIMCU409	Apply and monitor polymeric chemical management plans	NC
6 deleted units of competency submitted for endorsement				
RIIMSM301D	Establish a mining claim	N/A	N/A	D
RIIMSM302D	Plan small mine operations	N/A	N/A	D
RIIMSM303D	Install underground shaft	N/A	N/A	D
RIIMSM304D	Inspect small mines operations	N/A	N/A	D
RIIMSM305D	Conduct materials extraction operations underground	N/A	N/A	D
RIIMSM306D	Design, develop and maintain pillar system and ground control	N/A	N/A	D
3C Extractive				
5 updated qualifications submitted for endorsement				
RII20215	Certificate II in Surface Extraction Operations	RII20220	Certificate II in Surface Extraction Operations	E
RII30115	Certificate III in Surface Extraction Operations	RII30120	Certificate III in Surface Extraction Operations	E
RII40115	Certificate IV in Surface Extraction Operations	RII40120	Certificate IV in Surface Extraction Operations	E
RII50115	Diploma of Surface Operations Management	RII50120	Diploma of Surface Operations Management	E
RII60215	Advanced Diploma of Extractive Industries Management	RII60220	Advanced Diploma of Extractive Industries Management	NE
11 updated units of competency submitted for endorsement				

Administrative details

Current code	Current title	New code	New title	Mapping
RIIMEX201D	Suppress dust in open-cut environment	RIIMEX201E	Suppress dust in open-cut environments	E
RIIMEX402D	Supervise dredging operations	RIIMEX402E	Supervise dredging operations	E
RIIMEX503D	Manage dredging operations	RIIMEX503E	Manage dredging operations	E
RIISRM301D	Blend stockpile materials	RIISRM301E	Blend stockpile materials	E
RIISRM302D	Conduct stockpile reclaiming operations	RIISRM302E	Conduct stockpile reclaiming operations	E
RIISRM303D	Move and position materials to form stockpiles	RIISRM303E	Move and position materials to form stockpiles	E
RIISRM304D	Maintain stockpiles	RIISRM304E	Maintain stockpiles	E
RIISRM501D	Implement stockpile management plans	RIISRM501E	Implement stockpile management plans	E
RIISRM502D	Design stockpile formations and reclaiming systems	RIISRM502E	Design stockpile formations and reclaiming systems	E
RIISRM601D	Establish and maintain the stockpile management systems	RIISRM601E	Establish and maintain the stockpile management systems	E
RIIBLA602D	Establish and maintain a blasting system	RIIBLA602E	Establish and maintain explosives safety and security management systems	NE
1 newly created unit of competency submitted for endorsement				
N/A	N/A	RIIMEX408	Supervise overburden dump operations	NC

The above training products are listed in the RII Resources and Infrastructure Industry Version 7.0 Modification History table in the Companion Volume Implementation Guide and are being submitted as an AISC endorsement. A substantiation of the determination of equivalence or non-equivalence of training package products can be found in **H.1 Appendix 8**. The training products have been independently verified as meeting the requirements of the Standards for Training Packages and reviewed and approved by the Coal Mining, Extractive and Metalliferous Mining Industry Reference Committees (the Mining and Extractive IRCs).

Table 2 Total number of proposed changes

Total proposed changes to training products	Number of training products
Units to be updated	15
Units to be newly created	14
Units to be deleted	6
Qualifications to be updated	12
Qualifications to be newly created	-
Qualifications to be deleted	3
Skill sets to be updated	-
Skill sets to be newly created	-
Skill sets to be deleted	-

Case for Change details

Two Cases for Change, previously referred to as Business Cases, were established based on initial research and consultation, and were endorsed by the AISC on behalf of the Mining and Extractive IRCs in June 2018 and April 2019.

Case for Endorsement
PwC's Skills for Australia

Administrative details

Table 3 Activity order details

Activity Order	Project	Date executed	Scope of activity order
PwC/TPD/2017-2018/001	1H New and Emerging Technology	27/06/2018	<ul style="list-style-type: none"> • Create 4 new units of competency
PwC/TPD/2018-19/005	3B Metalliferous Mining 3C Extractive	17/06/2019	3B Metalliferous Mining <ul style="list-style-type: none"> • Update 6 qualifications • Update 3 units of competency • Delete 4 qualifications • Delete 4 units of competency 3C Extractive <ul style="list-style-type: none"> • Update 5 qualifications • Update 10 units of competency • Create 2 new units of competency

B. Description of work and request for approval

B.1 Description of work being undertaken and why

Project 1H New and Emerging Technology aims to create training products that address skills gaps in response to the increased adoption of autonomous systems and remote operations in the resources sector. There are currently no units of competency on the National Register that address knowledge and skills gaps in these areas, which contributes to a lack of training consistency between industry sectors, states and territories, employers and original equipment manufacturers (OEMs). By creating new units of competency, the Coal Mining and Metalliferous Mining IRCs aim to support a safe, consistent and industry-led approach to autonomous and remote operations in the resources sector.

Project 3B Metalliferous Mining aims to update training products to reflect skills needs in underground and open cut metalliferous mining and resource processing. It responds to increased industry focus on tailings dam safety and environmental compliance and aims to clarify and strengthen career progression pathways for learners and employers in the sector.

Project 3C Extractive aims to update training products to reflect current skills needs in open cut coal and metalliferous mining and quarrying. It responds to increased fatalities and critical injuries relating to the planning and construction of dumps, ground control and dust management activities. It also intends to amend and create select units to reduce duplication and overlap in training and add more content to units on geotechnical awareness, ground control and dust management.

B.2 Request for approval

This submission puts forward the Case for Endorsement for the proposed components of the RII Resources and Infrastructure Industries Training Package Version 7.0.

The draft components submitted to the AISC for endorsement are summarised in **Table 2** in Section A of this Case for Endorsement.

All components submitted for endorsement have been developed and reviewed in accordance with the *Standards for Training Packages 2012*, the *Training Package Products Policy 2019* and the *Training Package Development and Endorsement Policy 2019*.

Evidence of consultation with states and territories, and evidence that the views of key stakeholders have been considered, is provided in Section C of this Case for Endorsement.

The training product changes outlined below are based on PwC's Skills for Australia's analysis of the feedback received through consultation with industry.

Table 4 Summary of training products changes

Project	Training product changes
1H New and Emerging Technology	<ul style="list-style-type: none"> • Create eight new units of competency to address skills and training product gaps in relation to new and emerging technology in the resources and infrastructure sector, including autonomous mining systems and remotely piloted aircraft systems (RPAS).
3B Metalliferous Mining	<ul style="list-style-type: none"> • Update seven qualifications to clarify and strengthen career progression pathways workers in underground and open cut metalliferous mining and resources processing, from entry-level through to management, including through adding specialisation streams for specialist job roles in underground metalliferous mining. • Delete three qualifications, <i>RII30615 Certificate III in Small Mining Operations</i>, <i>RII50215 Diploma of Underground Metalliferous Mining Management</i> and <i>RII50315 Diploma of Minerals Processing</i> due to identified low industry use and relevance. • Update four units of competency relating to tailings dam operations to reflect current industry standards and practices for health, safety and environmental risk management.

Project	Training product changes
3C Extractive	<ul style="list-style-type: none"> • Delete six units of competency relating to small mining operations due to identified low industry use and relevance. • Create five new units of competency to address skills and training product gaps for operators and supervisors transporting, handling, applying and storing polymeric chemicals in underground environments. <hr/> <ul style="list-style-type: none"> • Update six qualifications to clarify and strengthen career progression pathways workers in open cut coal and metalliferous mining and quarrying, from entry-level through to management. • Update eleven units of competency to address health, safety and environmental risk management relating to dust management, dredging, stockpiling and explosives systems. • Create one new unit of competency, <i>RIIMEX408 Supervise overburden dump operations</i>, to address health, safety and environmental risk management skills gaps relating to supervision of overburden dump operations.

B.3 Justification of qualification structure

The Mining and Extractive IRCs support that the structure of the qualifications included in this Case for Endorsement align with their stated occupational outcomes and meet the needs of industry, including the number of core and elective units of competency and the selected packaging approach. Please see **H.1 Appendix 6** for a detailed justification of the qualification structures.

B.4 Justification of new unit of competency development

The Mining and Extractive IRCs support that where a decision has been made to develop a new unit of competency there were no existing units of competency (including cross-sector units of competency) that could be imported or contextualised to meet industry needs. The Mining and Extractive IRCs confirmed that skills gaps were industry-specific, and all newly created units of competency are dissimilar to existing units of competency.

The newly created RII Autonomous and Remote Operations (RIIARO) units of competency aim to address the skills gap in new and emerging technology, particularly autonomous mining and the use of drones in the resources and infrastructure industry. Consultation with Australian Industry Standards, the training package developer of the AVI Aviation Training Package, confirms that newly created *RIIARO302 Work safely with remotely piloted aircraft systems* aligns with existing AVI units of competency relating to remotely piloted aircraft systems.

C. Evidence of industry support

The Mining and Extractive IRCs support the submission of the training products detailed in this Case for Endorsement.

Name of Chair: **Darryl Cooper, Coal Mining IRC Chair**

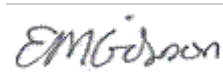
Signature of Chair:



Date: 28 October 2020

Name of Chair: **Elizabeth Gibson, Extractive IRC Chair**

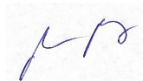
Signature of Chair:



Date: 28 October 2020

Name of Chair: **Jodie Badcock, Metalliferous Mining IRC Chair**

Signature of Chair:



Date: 28 October 2020

C.1 Conduct of enquiry and evidence of consultation

Our consultation approach has been guided by the following principles for training product development, which requires that our work should:

- 1 Be industry led
- 2 Encourage broad and transparent stakeholder consultation
- 3 Respond quickly to industry skills needs and priorities
- 4 Be efficient and cost effective
- 5 Produce high quality and independently validated training products

We have consulted with Mining and Extractive IRC members, industry and other relevant stakeholders through the methods outlined below. A list of stakeholders consulted over the course of project work is found in **H.1Appendix 1**.

IRC meetings

The Mining and Extractive IRCs have been engaged throughout all phases of the project, including initial consultation, review of consultation insights and training product recommendations, and review of draft and final training products. IRC members have been engaged through formal IRC meetings, individual consultation and invitations to submit feedback for draft training products. A list of Mining and Extractive IRC members is found in **H.1Appendix 1**.

The Mining and Extractive IRCs convened several times from August 2019 to June 2020 to specifically discuss these projects. The purpose of these meetings was for members to offer specialised input, discuss key consultation feedback and

Evidence of industry support

consider recommendations in response to that feedback. In addition to scheduled meetings, IRC members were consulted on an ongoing basis to validate key consultation insights and training product recommendations. The Drilling IRC has also been engaged throughout the training product development process for its input on specialist subject matter, such as production and development drilling skills addressed in underground metalliferous mining training products.

The table below provides a list of the IRC meetings where projects 1H, 3B and 3C were discussed with the relevant IRCs.

Table 5 List of IRC meetings at which projects 1H, 3B and 3C were discussed

Date	IRC	Project(s)
25 October 2018	Metalliferous Mining	1H New and Emerging Technology
12 February 2019	Metalliferous Mining	1H New and Emerging Technology
10 April 2019	Metalliferous Mining	1H New and Emerging Technology
6 August 2019	Metalliferous Mining	1H New and Emerging Technology, 3B Metalliferous Mining, 3C Extractive
7 August 2019	Drilling	3C Extractive
13 August 2019	Coal Mining	1H New and Emerging Technology, 3C Extractive
21 August 2019	Extractive	3C Extractive
15 October 2019	Coal Mining	1H New and Emerging Technology, 3C Extractive
23 October 2019	Drilling	3C Extractive
24 October 2019	Metalliferous Mining	1H New and Emerging Technology, 3B Metalliferous Mining, 3C Extractive
28 October 2019	Extractive	3C Extractive
6 February 2020	Coal Mining	1H New and Emerging Technology, 3C Extractive
6 February 2020	Drilling	3C Extractive
6 February 2020	Extractive	3C Extractive
6 February 2020	Metalliferous Mining	1H New and Emerging Technology, 3B Metalliferous Mining, 3C Extractive
24 March 2020	Metalliferous Mining	1H New and Emerging Technology, 3B Metalliferous Mining, 3C Extractive
31 March 2020	Extractive	3C Extractive
2 April 2020	Coal Mining	1H New and Emerging Technology, 3C Extractive
28 April 2020	Drilling	3C Extractive
30 April 2020	Metalliferous Mining	1H New and Emerging Technology, 3B Metalliferous Mining, 3C Extractive
3 June 2020	Metalliferous Mining	1H New and Emerging Technology, 3B Metalliferous Mining, 3C Extractive
14 July 2020	Metalliferous Mining	1H New and Emerging Technology, 3B Metalliferous Mining, 3C Extractive
15 July 2020	Extractive	3C Extractive
21 July 2020	Coal Mining	1H New and Emerging Technology, 3C Extractive
2 September 2020	Coal Mining	1H New and Emerging Technology, 3C Extractive
3 September 2020	Metalliferous Mining	1H New and Emerging Technology, 3B Metalliferous Mining, 3C Extractive
30 September 2020	Coal Mining and Metalliferous Mining	1H New and Emerging Technology
8 October 2020	Extractive	3C Extractive
13 October 2020	Coal Mining	1H New and Emerging Technology, 3C Extractive
14 October 2020	Metalliferous Mining	1H New and Emerging Technology, 3B Metalliferous Mining, 3C Extractive

Project working groups

Due to the scope and nature of the project, the Mining and Extractive IRCs decided not to establish a separate project working group (PWG). The Mining and Extractive IRCs noted that its members possessed most of the relevant skills and experience to provide subject matter expertise for training product development and to guide stakeholder engagement, without requiring a separate PWG. Where additional skills and experience were required, other key stakeholders were engaged at the direction of the Mining and Extractive IRCs. This includes training products used in the coal mining industry, such as those relating to autonomous mining, remotely piloted aircraft systems and the application of polymeric chemicals.

Targeted consultations

Targeted consultations were conducted with groups and individuals identified as relevant stakeholders by Mining and Extractive IRC members and industry contacts in PwC's Skills for Australia's network.

As the RII Resources and Infrastructure Industry Training Package is part of a national training system, PwC's Skills for Australia sought consultation with, and invited feedback from, stakeholders in all states and territories, including industry employers and organisations, peak bodies, government and registered training organisations (RTOs). Targeted consultations were conducted via one on one video and phone interviews, focus groups and email correspondence.

In general, targeted consultation focused on geographies in which economic activity and employer demand are most concentrated for the relevant job roles. In the metalliferous mining and extractive industries, employer demand is most concentrated in areas of resource availability, particularly across New South Wales (NSW), Queensland (QLD), Victoria (VIC) and Western Australia (WA). Given this, targeted consultation involved a high proportion of stakeholders based in these locations. Additional targeted consultations were conducted to ensure an appropriate level of consultation for more specialised subject matter, such as training products relating to polymeric chemicals and tailings.

To capture feedback from stakeholders that were not able to participate in one on one interviews or focus groups, PwC's Skills for Australia published draft training products on its website and social media channels for public review and encouraged IRC members to share published materials with their networks. During the public review period, the draft training products were downloaded by over 100 unique users.

To ensure providers of the RII Resources and Infrastructure Industries training package were given the opportunity to contribute to its development, PwC's Skills for Australia individually emailed every RTO with the qualifications and units in the 3B Metalliferous Mining and 3C Extractive projects on scope for delivery.

The figure below shows a summary of the types of stakeholders involved in the targeted consultations, including IRC members who were also targeted for one-on-one consultations. The location of stakeholders was determined by their primary postcode, for example a head office, and so is not indicative of stakeholders who represent multiple locations.

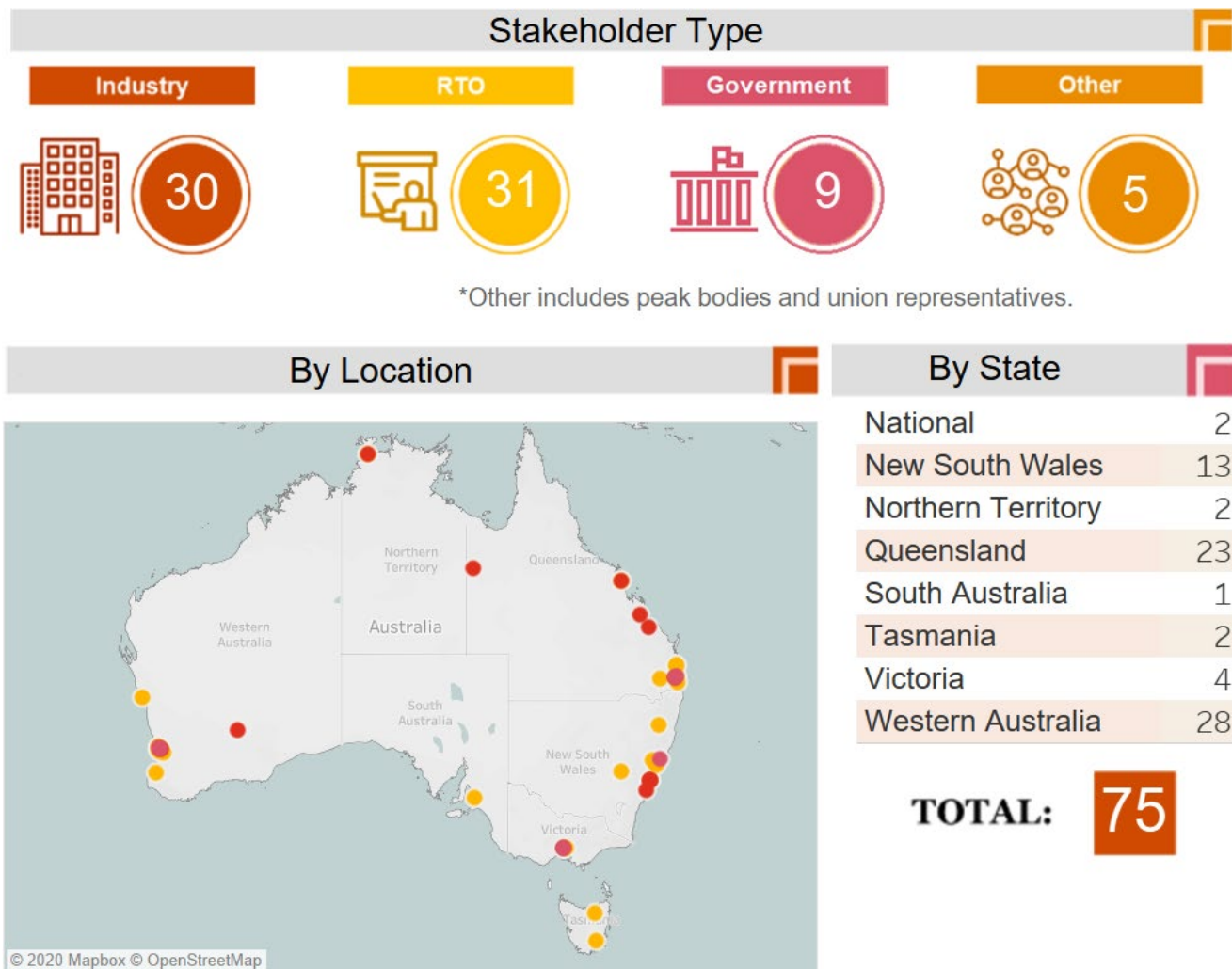


Figure 1 Targeted consultation by stakeholder type and geographical location

The table below shows a summary of the types of stakeholders by project involved in the targeted consultations, including IRC members who were also targeted for one-on-one consultations.

Table 6 Targeted consultation by stakeholder type and project

Project	Industry	RTO	Peak body	Government	Union	TOTAL
1H New and Emerging Technology	20	3	2	6	6	38
3B Metalliferous Mining	20	22	2	5	2	49
3C Extractive	17	17	0	5	1	40

Engagement with State and Territory Training Authorities

State and Territory Training Authorities (STAs) have been engaged throughout the review process and provided feedback at scheduled periods and on an ongoing basis. All STAs were engaged to provide feedback on draft training products released during the following periods:

- Draft version public review period: 16 June 2020 – 10 July 2020 (**1H New and Emerging Technology, 3B Metalliferous Mining and 3C Extractive**)

Evidence of industry support

- Public validation period: 20 July 2020 – 3 August 2020 (**1H New and Emerging Technology**)
- Dedicated STA review period: 10 August 2020 – 28 August 2020 (**1H New and Emerging Technology**)
- Public validation period: 17 August 2020 – 31 August 2020 (**3B Metalliferous Mining and 3C Extractive**)
- Dedicated STA review period: 7 September 2020 – 2 October 2020 (**1H New and Emerging Technology, 3B Metalliferous Mining and 3C Extractive**)

During the dedicated STA review period, following feedback was received from each state/territory:

- **New South Wales** noted its support for the Case for Endorsement in an email dated 29 September 2020.
- **Northern Territory** noted its support for the Case for Endorsement in an email dated 6 October 2020.
- **Queensland** noted its support for the Case for Endorsement in an email dated 30 September 2020.
- **Tasmania** noted its support for the Case for Endorsement in an email dated 9 September 2020.
- **Western Australia** noted its support for this Case for Endorsement in an email dated 1 October 2020.
- **Australian Capital Territory** noted it would not be providing advice on Cases for Endorsement until a new ACT state government is elected.
- **South Australia** has not provided a response regarding the Case for Endorsement to date.
- **Victoria** noted it is unable to support the Case for Endorsement and would like to record a report by exception in an email dated 26 October 2020. Please see section **C.4** below for further detail.

Draft training product review

Draft training products were published on PwC's Skills for Australia's website for public review and feedback during the following time periods:

- **1H New and Emerging Technology:** 16 June 2020 – 10 July 2020
- **3B Metalliferous Mining and 3C Extractive:** 15 June 2020 – 10 July 2020,

An additional public validation period on draft training products was also held. Draft training products were made available on the PwC's Skills for Australia website again during the following time period:

- **1H New and Emerging Technology:** 20 July 2020 – 3 August 2020.
- **3B Metalliferous Mining and 3C Extractive:** 17 August 2020 - 31 August 2020

Email alerts were also sent to subscribers to PwC's Skills for Australia's Mining, Drilling and Civil Infrastructure (MDCI) mailing list (including STA networks) and IRC members, advising that the draft training products were available for review on the project webpage.

Based on the download data available through PwC's Skills for Australia's website, there was a minimum of 105 unique draft training product downloads for projects 1H New and Emerging Technology, 3B Metalliferous Mining and project 3C Extractive.

C.2 Substantiation of determination of equivalence or non-equivalence

The Mining and Extractive IRCs support that determinations of equivalence or non-equivalence align with occupational outcomes and meet industry needs. Training product equivalence or non-equivalence has been determined based on advice from industry and assessment of the quantum and magnitude of training product changes. Please see **H.1 Appendix 8** for a detailed substantiation of determination of equivalence or non-equivalence.

C.3 Summary of consultation for deletion of training products from the National Register

There are three qualifications and six units of competency proposed for deletion from the RII Resources and Infrastructure Industry Training Package as part of project 3B Metalliferous Mining. This decision is supported by industry consultation and public review and validation. Each RTO on scope to deliver the qualifications to be deleted was contacted by PwC's

Skills for Australia before public review period. Each RTO was provided an opportunity to share their perspectives on the industry relevance of the qualifications to be deleted. Please see **H.1Appendix 7** for historical enrolment data for training products to be deleted from the National Register.

There is one RTO on scope to provide *RII30615 Certificate III in Small Mining Operations*. There are three RTOs on scope to provide both *RII50215 Diploma of Underground Metalliferous Mining Management* and *RII50315 Diploma of Minerals Processing*. Consultation with these RTO indicates that these qualifications have received few to no expressions of interest over the past three years. The RTOs noted that there are industry relevant units of competency housed in the qualification which should not be deleted as part of this process. PwC's Skills for Australia has included these units of competency in other relevant qualifications. The six units of competency proposed for deletion are housed only in *RII30615 Certificate III in Small Mining Operations*. Industry consultation supports that they duplicate other units of competency in the RII Resources and Infrastructure Industry Training Package or related to obsolete skills.

There are no training products from the RII Resources and Infrastructure Industry Training Package to be deleted from the National Register as part of project 3C Extractive.

The training products will be deleted following the AISC's approval of this Case for Endorsement and the subsequent publication of Version 7.0 of the RII Resources and Infrastructure Industry Training Package on the National Register. None of the training products to be deleted are included in other training packages.

C.4 Reports by exception

The Victorian STA noted it does not support newly created units of competency being added to an existing qualification as a minor change. PwC's Skills for Australia notes that five newly created units of competency are proposed to be added as elective units to three existing qualifications in the RII Resources and Infrastructure Industry Training Package, as detailed in **H.1Appendix 2**. PwC's Skills for Australia understands that according to the first sub bullet point (highlighted in Error! Reference source not found. below) of Section 6.2 of the *Training Package Development and Endorsement Process Policy 2019*, this training package amendment is considered a minor change.

6.2 Minor changes

Minor changes are made after the training package is available on the National Register and are not subject to the full development and endorsement process. Minor changes do not need AISC approval for implementation or to be included as part of a Case for Endorsement.

Minor changes include:

- correcting errors including to ensure the training package on the National Register accurately reflects the relevant AISC decision
- updating outdated references (for example to licensing and regulation arrangements)
- providing clarification to the text of the training package without changing the requirements
- the following changes to existing qualifications:
 - adding elective units of competency to a qualification
 - updating elective units of competency in a qualification that do not form part of a specialisation
 - adding, updating, or removing groups of electives (without adding or removing units of competency to or from the qualification itself), where this does not change the number of units of competency required to be completed.

Figure 2 *Training Package Development and Endorsement Process Policy 2019, Section 6.2 Minor changes*

PwC's Skills for Australia will provide targeted communications to the RTOs on scope to deliver the existing qualifications affected – ensuring they are informed about the minor change.

D. Industry expectations about training delivery

D.1 Industry advice on training delivery

Industry members advised that training delivery and assessments should be permitted to be performed in a simulated environment to ensure learner accessibility. This is provided that the simulated environment is realistic and sufficiently rigorous to cover all aspects of this sector's workplace performance. This has been reflected in the assessment requirements of each reviewed unit of competency.

Additional advice is included in the RII Companion Volume Implementation Guide about industry's expectations of training delivery, delivery modes and pathways, work-based learning strategies and learner characteristics, and assessments.

D.2 Industry advice on traineeships and apprenticeships

The Mining and Extractive IRCs are aware that the changes to the Certificate III qualifications proposed in this Case for Endorsement will impact current apprenticeships and traineeships, including *RII30320 Certificate III in Underground Metalliferous Mining*, *RII30420 Certificate III in Resource Processing* and *RII30120 Certificate III in Surface Extraction Operations*.

Current apprenticeships and traineeships will need to provide transition arrangements for completion of various qualifications within the system.

Proposed changes to the training package, particularly those surrounding *RII30320 Certificate III in Underground Metalliferous Mining*, intend to encourage a greater uptake of future traineeships and apprenticeships due to the streamlining of qualifications and refinement of specialisation streams.

E. Implementation of the new Training Package

E.1 Implementation management strategy

Communication of changes to the RII Resources and Infrastructure Industry Training Package may require RTOs to make changes to their qualifications on scope. To address this, the following communications strategy has been developed to notify stakeholders, including RTOs, of changes to the RII Resources and Infrastructure Industry Training Package:

- Update the PwC's Skills for Australia website, including publishing a news post on the MDCI webpage
- Email all subscribers to the MDCI industry on PwC's Skills for Australia's website
- Email organisations and individuals previously engaged throughout the training product development process, including STAs, employers, RTOs and peak bodies
- Develop a summary document outlining the changes, and include it with the abovementioned communications
- Verbally communicate the changes at relevant meetings, conferences and events attended by PwC's Skills for Australia team members
- Share the changes with the broader public via social media, including the PwC's Skills for Australia LinkedIn page.

In addition, an automated email will be sent from training.gov.au notifying all RTOs on scope of changes to the RII Resources and Infrastructure Industry Training Package.

E.2 Licensing requirements

Industry consultation indicates that changes made in relation to the training products do not affect any licensing requirements across Australia. Licensing requirements which affect the RII Resources and Infrastructure Industry Training Package are listed in the RII Implementation Guide in the 'Implementation information' section.

F. Quality assurance reports

F.1 Independent Quality Reports

Independent Quality Reports, including Editorial Reports, Equity Reports, and Quality Reports have been included as part of this Case for Endorsement.

The reports attest to there being a quality-assured Companion Volume Implementation Guide prepared. PwC’s Skills for Australia confirms that this guide will be available on VETNet following publication of Version 7.0 of the RII Resources and Infrastructure Industry Training Package on the National Register.

Equity Report

The equity report was completed on 4 August 2020 by Elizabeth Redmond and updated on 7 October 2020. Please note that an additional equity report is included in this Case for Endorsement, which includes the eight newly created RIIARO units of competency on scope for Project 1H New and Emerging Technology. It was completed on 3 July 2020 by Quality Assurance panellist Bernadette Delaney and updated on 17 September 2020. Both reports can be found in **H.1Appendix 3**.

Editorial Report

The equity report was completed on 4 August 2020 by Elizabeth Redmond. Please note that an additional editorial report is included in this Case for Endorsement, which includes the eight newly created RIIARO units of competency on scope for Project 1H New and Emerging Technology. It was completed on 3 July 2020 by Quality Assurance panellist Bernadette Delaney and updated on 17 September 2020. Both reports can be found in **H.1Appendix 4**.

Quality Report

The quality report was completed on 19 August 2020 by Quality Assurance panellist Lina Robinson. Please note that an additional quality report is included in this Case for Endorsement, which includes the eight newly created RIIARO units of competency on scope for Project 1H New and Emerging Technology. It was completed on 24 July 2020 by Quality Assurance panellist Anna Henderson and updated on 17 September 2020. Both reports can be found in **H.1Appendix 5**.

F.2 Declaration of alignment with standards

Throughout the training product development process, we have ensured that developed qualifications, skill sets and units of competency meet industry needs and the requirements of:

- *The Standards for Training Packages 2012*
- *Training Package Products Policy*
- *Training Package Development and Endorsement Process Policy*.

F.3 Declaration of having met the Training Package Quality Principles

The table below provides statements which support that training products meet the Training Package Quality Principles.

Table 7 Declaration of having met the Training Package Quality Principles

Principle	Evidence
1. Reflect identified workforce outcomes	<ul style="list-style-type: none"> • The conduct of our enquiry, as outlined in Section C.1 of this Case for Endorsement, has ensured that industry needs have formed the basis of training product development. • Existing training products have been amended to ensure alignment with current industry processes, procedures and technology. • New training products have been created to meet the needs of current job roles within the extractive and metalliferous mining industries.

Principle	Evidence
2. Support portability of skills and competencies including reflecting licensing and regulatory requirements	<ul style="list-style-type: none"> • Training products have been developed to respond to the key trends identified in the MDCI Industry Skills Forecasts and Proposed Schedules of Work and key themes emerging from industry consultation. • We have closely involved relevant regulatory and registration bodies in our training product development work, including consultations with relevant IRC members, focus groups and targeted consultations with stakeholders listed in H.1Appendix 1. • Industry indicates no other licencing or regulatory requirements have been impacted by the proposed modifications to training products listed in this Case for Endorsement.
3. Reflect national agreement about the core transferable skills and core job-specific skills required for job roles as identified by industry	<ul style="list-style-type: none"> • Our consultations have included stakeholders from national and multinational employers, peak bodies, RTOs and other subject matter experts, as outlined in H.1Appendix 1. Consultation indicates the proposed modifications to training products will facilitate the national and international portability of skills across the extractive, coal mining and metalliferous mining sectors.
4. Be flexible to meet the diversity of individual and employer needs, including the capacity to adapt to changing job roles and workplaces	<ul style="list-style-type: none"> • Units of competency have been updated to ensure alignment with industry needs and workforce skill requirements. Terminology used in performance criteria, performance evidence and knowledge evidence has been updated, where appropriate, to ensure it is sufficiently flexible to adapt to evolving industry processes, procedures and technologies. • Qualifications have been updated to ensure appropriate and varied listed elective units of competency are available for learners.
5. Facilitate recognition of an individual's skills and knowledge and support movement between the school, vocational education and higher education sectors	<ul style="list-style-type: none"> • Qualifications have been updated to provide learners with pathways from school into VET, between VET qualifications, into higher education, and into job roles in extractive industries, coal mining and metalliferous mining, with 'exit points' into jobs existing for each qualification.
6. Support interpretation by training providers and others through the use of simple, concise language and clear articulation of assessment requirements	<ul style="list-style-type: none"> • The content of units of competency has been developed in consultation with industry and trainers and assessors, ensuring language used is relevant to workplaces and is easily understood in a training context. • A Companion Volume Implementation Guide will accompany Version 7.0 of the RII Resources and Infrastructure Industry Training Package to support implementation of training across a range of settings. • Assessment requirements in units of competency have been written to ensure consistency. Where industry requires assessment to occur in a particular way for a given unit of competency, it has been clearly articulated in the assessment conditions.

G. Implementation of COAG Industry and Skills Council reforms to Training Packages

G.1 Alignment with the COAG ISC reforms to Training Packages

The table below demonstrates the alignment of the draft training products with the Council of Australian Governments (COAG) Industry and Skills Council reforms to Training Packages.

Table 8 Alignment with the COAG ISC reforms to Training Packages

Principle	Evidence
1. Ensure obsolete and superfluous qualifications are removed from the system	<ul style="list-style-type: none"> • <i>RII30615 Certificate III in Small Mining Operations, RII50215 Diploma of Underground Metalliferous Mining Management and RII50315 Diploma of Minerals Processing</i> have been deleted from the Resources and Infrastructure Industry Training Package. This aligns with industry feedback and enrolment analysis which identified the three qualifications as being no longer necessary or useful for industry, therefore rendering them obsolete.
2. Ensure that more information about industry's expectations of training delivery is available to training providers to improve their delivery and to consumers to enable more informed course choices	<ul style="list-style-type: none"> • Training products have been clearly titled, with titles linked to job roles and/or to specific skills, enabling users without an in depth understanding of the VET system to make more informed course choices. • A Companion Volume Implementation Guide will accompany Version 7.0 of the RII Resources and Infrastructure Industry Training Package to support implementation of training across a range of settings. • Assessment requirements in units of competency have been written to ensure consistency. Where industry requires assessment to occur in a particular way for a given unit of competency, it has been clearly articulated in the assessment conditions.
3. Ensure that the training system better supports individuals to move easily from one related occupation to another	<ul style="list-style-type: none"> • Entry requirements have not been applied to the qualifications that have been updated.
4. Improve the efficiency of the training system by creating units that can be owned and used by multiple industry sectors	<ul style="list-style-type: none"> • Newly created RIIARO units of competency can be owned and used across coal mining and metalliferous mining sectors. • Newly created <i>RIIMEX408 Supervise overburden dump operations</i> can be owned and used across extractive, coal mining and metalliferous mining sectors.
5. Foster greater recognition of skill sets	<ul style="list-style-type: none"> • No new skill sets were created under the scope of project 3B Metalliferous Mining and 3C Extractive.

G.2 Alignment of development work with AISC Cases for Change

The Activity Order for projects 1H New and Emerging Technology, 3B Metalliferous Mining and 3C Extractive's Case for Change detailed a review of 11 qualifications and 19 units of competency, as outlined in **Table 3** in Section A of this Case for Endorsement.

The final result of the training product development work was a review of 11 qualifications and 21 units of competency, including 14 units of competency to be newly created, as outlined in **Table 2** in Section A of this Case for Endorsement.

Our work also included non-endorsable changes to the training package. A list of these changes is available in **H.1Appendix 2**.

G.3 Evidence that training products are publication ready

All draft training products are included in this Case for Endorsement. Subject to the AISC's endorsement of the training products, they are ready for publication on the National Register.

We expect Version 7.0 of the RII Resources and Infrastructure Industry Training Package to be released on the National Register in February 2021.

H. Copy of the full content of the proposed training products

H.1 Copy of proposed training products

A full copy of the proposed training products for this project have been provided to the AISC as a separate attachment.

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Appendix 1. Consultation

The tables below list the stakeholders who provided feedback throughout PwC's Skills for Australia training product development work in their capacity as IRC members, or through their participation in targeted consultations, and feedback on draft training products published on PwC's Skills for Australia's website.

IRC members

Table 9 includes current and former Mining and Extractive IRC members engaged during training product development. For a complete list of current Mining and Extractive IRC members, please refer to the relevant AISC website page:

- [Coal Mining IRC](#)
- [Extractive IRC](#)
- [Metalliferous Mining IRC](#)

Table 9 Mining and Extractive IRC members

Individual	Organisation	Representation	State/Territory
Coal Mining IRC			
Andrew Palmer	New South Wales Resources Regulator	Regulator	NSW
Brant Softley	Australian Manufacturing Workers' Union	Union	WA
Darryl Cooper	Minerals Council of Australia	Peak body	QLD
Doug Kennedy	Glencore Coal Assets Australia	Industry	QLD
Duncan Campbell	Ensham Resources	Industry	QLD
Gavin Lawrence	Australian Workers' Union	Union	QLD
Jodie Badcock	METS Ignited and National Energy Resources Australia	Industry	SA
Kamball Schafferius	BHP	Industry	QLD
Mark Freeman	Queensland Mines Rescue Service	Regulator	QLD
Matthew Wray	New South Wales Minerals Council	Peak body	NSW
Neil Randolph	Queensland Mines Inspectorate	Regulator	QLD
Rod Van Moolenbroek	Sedgman	Industry	QLD
Scott Layton	BHP	Industry	QLD
Shane Apps	Queensland Resources Council	Peak body	QLD
Stephen Watts	Construction, Forestry, Maritime, Mining and Energy Union	Union	QLD
Extractive IRC			
David Smith	Cement, Concrete and Aggregates Association	Peak body	QLD
Elizabeth Gibson	Construction Material Processors Association	Peak body	VIC

Consultation

Individual	Organisation	Representation	State/Territory
Glenn McLaren	Australian Manufacturing Workers' Union	Union	WA
Jo Murray	Peninsula Quarries	Industry	VIC
Kylie Fahey	Institute of Quarrying Australia	Peak body	QLD
Luke Tavener	Boral	Industry	VIC
Maria Floro	Safety Compliance Resources	Industry	NSW
Naomi Carson	Orica	Industry	VIC
Sean Burke	Australian Workers' Union	Union	NSW
Waeel Ilahi	Western Australian Department of Mines, Industry Regulation and Safety	Regulator	WA
Wesley Woodman	Holcim	Industry	NSW
Metalliferous Mining IRC			
Aaron Gray	Rio Tinto	Industry	WA
Annie Holt	Resources Industry Training Council WA	Peak body	WA
Darryl Cooper	Minerals Council of Australia	Peak body	QLD
Glenn McLaren	Australian Manufacturing Workers' Union	Union	WA
Jodie Badcock	METS Ignited	Industry	SA
John Soubotian	North Metropolitan TAFE (NM TAFE)	RTO	WA
Mark Knowles	BHP	Industry	WA
Martin Ralph	Western Australian Department of Mines, Industry Regulation and Safety	Regulator	WA
Naomi Carson	Orica	Industry	VIC
Nigel Haywood	Minerals Council of Australia	Peak body	WA
Shane Roulstone	Australian Workers' Union	Union	NSW
Vicki Anderson	Mount Isa Mines	Industry	QLD

Table 10 Targeted consultation participants

Individual	Organisation	Representation	State/Territory	Rural/Regional
Adam Gibbs	Northern Star Resources	Industry	WA	Yes
Adam Hammett	BHP	Industry	QLD	Yes
Ainslea Hunt	Maca	Industry	WA	Yes
Alex Hollingsworth	Rio Tinto	Industry	WA	Yes
Amanda Silvester	Central Regional TAFE	RTO	WA	Yes
Ann-Maree Lucht	TAFE Queensland	RTO	QLD	No
BJ Moore	Rio Tinto	Industry	QLD	Yes
Bobbie Gosbee	Mount Isa Mines	Industry	QLD	Yes
Brad Holberton	Fortescue Metals Group	Industry	WA	Yes
Brett Harper	Thiess	Industry	QLD	Yes

Consultation

Bryce Coventon	Performance Training	RTO	QLD	No
Brooke Edwards	Wilson Mining	Industry	NSW	Yes
Charma Brotherton	Major Training Group	RTO	QLD	No
Cherie & Trevor Little	Thrivability Training and Coaching	RTO	WA	No
Clinton Smith	Mastermyne	Industry	NSW	Yes
David Hackett	Boral	Industry	NSW	Yes
Dean Brown	Wilson Mining	Industry	NSW	Yes
Don Cameron	Glencore	Industry	NSW	Yes
Gordon Draper	Wilson Mining	Industry	QLD	Yes
Greg Patrick	ByrneCut Australia	RTO	WA	No
Harmony Thuresson	Training Alliance Group	RTO	WA	No
Jan Winch	Charles Darwin University	RTO	NT	No
Jason Meikle	BHP	Industry	QLD	Yes
Jody Seymour	Mount Isa Mines	Industry	QLD	Yes
John Clinton	EmCare	RTO	QLD	No
Karen Murphy	South32 Illawarra Metallurgical Coal (IMC)	Industry	NSW	Yes
Kathleen McConach	Mount Isa Mines	Industry	QLD	Yes
Kelly Bodman	Northern Star Resources	Industry	WA	Yes
Larry Ting	Evolution Mining	Industry	NSW	Yes
Linda Holmes	Otraco Training	RTO	WA	No
Maree Merrett	BHP	Industry	QLD	Yes
Matt Moore	Coal Services	RTO	NSW	No
Matthew Keating	Australian Institute of Resources Training	RTO	QLD	No
Matthew Tenkate	Major Training Group	RTO	QLD	No
Michelle O'Kane	Mount Isa Mines	Industry	QLD	Yes
Nathan Robinson	Pilbara Surveys	Industry	WA	Yes
Nhi Do	South Metro TAFE	RTO	WA	No
Paschal Somers	Australian Industry Standards	Industry	VIC	No
Paul Silver	Mount Isa Mines	Industry	QLD	Yes
Paula Dewhurst	North Metro Tafe	RTO	WA	No
Peta Chirgwin	South Metro TAFE	RTO	WA	No
Peter Cavanough	Redpath Mining	RTO	QLD	No
Peter Green	Transtegic	RTO	TAS	No

Consultation

Pru Killick	Pegasus Training	RTO	NSW	No
Robert Kerridge	Civil Safety	RTO	QLD	No
Robert Petting	BHP Nickel West	Industry	WA	Yes
Robyn Rock	Dalton Training Services	RTO	WA	No
Rodney Trethewey	BHP Nickel West	Industry	WA	Yes
Ron Pip	Mount Isa Mines	Industry	QLD	Yes
Roy Walsh	Australian Institute of Mining	RTO	NSW	No
Russell Roberts	Komatsu	Industry	NSW	Yes
Scott Brabham	Consolidated Training	RTO	WA	No
Scott Leggett	BHP Peak Downs	Industry	QLD	Yes
Sean Crane	TasTAFE	RTO	TAS	No
Sean Culling	BHP Nickel West	Industry	WA	Yes
Simon O'Neill	Combined Team Services	RTO	WA	No
Simon Stuart	Riskee Business	RTO	NSW	No
Stephen Mead	Wilson Mining	Industry	NSW	Yes
Taryn Hughes	Queensland Future Skills Partnership	RTO	QLD	No
Thomas Chapman	Glencore	Industry	NSW	Yes
Tony Ferrazza	Box Hill Institute of TAFE	RTO	VIC	No
Tracey Woods	Down Under Training	RTO	QLD	No
Trevor Brown	Department of Natural Resources, Mines and Energy (DNRME)	Regulator	QLD	No
Vicki Anzillero	Worksafe Connect	RTO	QLD	No
Yvonne Webb	Industry Skills Advisory Council NT	Industry	NT	Yes

Appendix 2. Non-endorsable components

Non-endorsable changes

The IRC approved one non-endorsable update which will be implemented when the RII Resources and Infrastructure Industry Training Package Version 7.0 is released on the National Register.

Table 11 Summary of non-endorsable training products submitted as minor release

Qualification code	Qualification title	Minor change	Mapping
RII20320	Certificate II in Underground Coal Mining	One newly created unit of competency added to the electives: <ul style="list-style-type: none"> RIIMCU218 Work safely with polymeric chemicals in underground coal mining 	E
RII30220	Certificate III in Underground Coal Operations	Four newly created units of competency added to the electives: <ul style="list-style-type: none"> RIIMCU218 Work safely with polymeric chemicals in underground coal mining RIIMCU312 Conduct polymeric chemical operations in underground coal mining RIIMCU313 Mix and pump polymeric chemicals in underground coal mining RIIMCU314 Transport and handle polymeric chemicals in underground coal mining 	E
RII40420	Certificate IV in Underground Coal Operations	One newly created unit of competency added to the electives: <ul style="list-style-type: none"> RIIMCU409 Apply and monitor polymeric chemical management plans 	E

Appendix 3. Equity Report

Equity Report

The following equity reports were produced by Elizabeth Redmond and Bernadette Delaney as part of the quality assurance process. Please note the equity report prepared by Bernadette Delaney was updated on 17 September 2020 to reflect that eight newly created RIIARO units of competency will be included in this Case for Endorsement.

Appendix 4. Editorial Report

Editorial Report

The following editorial reports were produced by Elizabeth Redmond and Bernadette Delaney as part of the quality assurance process. Please note the editorial report prepared by Bernadette Delaney was updated on 17 September 2020 to reflect that eight newly created RIIARO units of competency will be included in this Case for Endorsement.

Appendix 5. Quality Assurance Report

Quality Report

The following equity reports were produced by Lina Robinson and Anna Henderson as part of the quality assurance process. Please note the equity report prepared by Anna Henderson was updated on 17 September 2020 to reflect that eight newly created RIIARO units of competency will be included in this Case for Endorsement.

Appendix 6. Qualification supporting information

The following tables outline the qualifications included in this Case for Endorsement and a rationale for their updated structure. It includes information including when the qualification was last modified and why, current enrolment levels, relevant ANZSCO codes and job roles, and current and projected employment levels for relevant job roles. Please note that current and projected employment levels are based on the four-digit ANZSCO code associated with the qualification and do not necessarily reflect actual employment levels.

Table 11 Qualifications included in this Case for Endorsement and a rationale for their structure

Current qualification	Current packaging rules	Updated qualification	Updated packaging rules	Rationale for qualification structure
RII20215 Certificate II in Surface Extraction Operations	<p>The following provides the packaging rules for this qualification, followed by the list of relevant units of competency.</p> <p>Total number of units = 9</p> <p>4 core units plus 5 elective units, of which:</p> <p>at least one (1) must be chosen from Group A at least two (2) must be chosen from Group B no more than two (2) may be chosen from Group C no more than two (2) may be chosen from elsewhere within this training package, or from another endorsed training package, or from an accredited course.</p> <p>All elective units selected from outside this qualification must reflect current occupational and learning outcomes of this AQF qualification level.</p> <p>There are both licensed and non-licensed units of competency relating to high risk work in the Resources and Infrastructure Industry Training Package. To be appointed under any statutory requirements in related roles, units of competency should be selected to meet the state/territory licensing requirements.</p>	RII20220 Certificate II in Surface Extraction Operations	<p>The following provides the packaging rules for this qualification, followed by the list of relevant units of competency.</p> <p>Total number of units = 9</p> <p>4 core units plus 5 elective units, of which:</p> <p>at least one (1) must be chosen from Group A at least two (2) must be chosen from Group B no more than two (2) may be chosen from Group C no more than two (2) may be chosen from elsewhere within this training package, or from another endorsed training package, or from an accredited course.</p> <p>Elective units must be relevant to the work environment and the qualification, maintain the overall integrity of the AQF alignment, not duplicate the outcome of another unit chosen for the qualification, and contribute to a valid industry-supported vocational outcome.</p> <p>The elective bank contains both licensed and non-licensed units of competency relating to high risk work in the resources and infrastructure industry. To be</p>	<p>Industry consultation and advice from the Metalliferous Mining, Coal Mining and Extractive IRCs supports that the qualification requires learners to apply knowledge and skills to demonstrate autonomy and limited judgement to support operations in surface extraction, in defined contexts working under direct supervision.</p> <p>The packaging rules require learners to undertake four core units of competency, each of which require learners to apply basic knowledge and skills in surface extraction environments, in structured and stable work contexts within narrow parameters. For example, <i>BSBSUS211 Participate in sustainable work practices</i>, <i>RIIRIS201E Conduct local risk control</i> and <i>RIIWHWS201E Work safely and follow WHS policies and procedures</i> provide essential skills and knowledge entry level workers require to operate safely in structured and stable surface extraction contexts.</p>

Current qualification	Current packaging rules	Updated qualification	Updated packaging rules	Rationale for qualification structure
	There are prerequisites to imported units listed in this qualification. Where a unit is imported as an elective care must be taken to ensure that all prerequisites specified are complied with.		appointed under any statutory requirements in related roles, units of competency should be selected to meet the state/territory licensing requirements. There are no prerequisites to imported units listed in this qualification. Where a unit is imported as an elective care must be taken to ensure that all prerequisites specified are complied with.	
RII30115 Certificate III in Surface Extraction Operations	<p>The following provides the packaging rules for this qualification, followed by the list of relevant units of competency.</p> <p>Total number of units = 13</p> <p>3 core units plus 10 elective units, of which:</p> <p>one (1) must be chosen from Group A one (1) must be chosen from Group B at least three (3) must be chosen from Group C no more than (3) may be chosen from Group D no more than (2) may be chosen from within this training package, or from another endorsed training package, or from an accredited course.</p> <p>All elective units selected from outside this qualification must reflect current occupational and learning outcomes of this AQF qualification level.</p> <p>There are both licensed and non-licensed units of competency relating to high risk work in the Resources and Infrastructure Industry Training Package. To be appointed under any statutory requirements in related roles, units of competency should be selected to meet the state/territory licensing requirements.</p>	RII30120 Certificate III in Surface Extraction Operations	<p>The following provides the packaging rules for this qualification, followed by the list of relevant units of competency.</p> <p>Total number of units = 13</p> <p>3 core units plus 10 elective units, of which:</p> <p>one (1) must be chosen from Group A one (1) must be chosen from Group B at least three (3) must be chosen from Group C no more than (3) may be chosen from Group D no more than (2) may be chosen from within this training package, or from another endorsed training package, or from an accredited course.</p> <p>Elective units must be relevant to the work environment and the qualification, maintain the overall integrity of the AQF alignment, not duplicate the outcome of another unit chosen for the qualification, and contribute to a valid industry-supported vocational outcome.</p> <p>The elective bank contains both licensed and non-licensed units of competency relating to high risk work in the resources and infrastructure industry. To be appointed under any statutory</p>	<p>Industry consultation and advice from the Metalliferous Mining, Coal Mining and Extractive IRCs supports that the qualification requires learners to apply knowledge and skills to demonstrate autonomy and judgement in Identify and assess environmental and heritage concerns, in varied contexts involving some application of discretion and judgement in selecting equipment, services or contingency measures.</p> <p>The packaging rules require learners to undertake three core units of competency, each of which require learners to apply knowledge and skills in known and stable contexts within established parameters. For example, <i>RIIENV201E Identify and assess environmental and heritage concerns</i>, <i>RIIRIS301E Apply risk management processes</i> and <i>RIIWHS201E Work safely and follow WHS policies and procedures</i> provide essential skills and knowledge surface extraction operators require to provide theoretical advice and support a team.</p>

Current qualification	Current packaging rules	Updated qualification	Updated packaging rules	Rationale for qualification structure
	There are prerequisites to imported units listed in this qualification. Where a unit is imported as an elective care must be taken to ensure that all prerequisites specified are complied with.		<p>requirements in related roles, units of competency should be selected to meet the state/territory licensing requirements.</p> <p>There are prerequisites to imported units listed in this qualification. Where a unit is imported as an elective care must be taken to ensure that all prerequisites specified are complied with.</p>	
RII40115 Certificate IV in Surface Extraction Operations	<p>The following provides the packaging rules for this qualification, followed by the list of relevant units of competency.</p> <p>Total number of units = 13</p> <p>4 core units plus 9 elective units, of which:</p> <p>one (1) must be chosen from Group A at least two (2) must be chosen from Group B no more than four (4) may be chosen from Group C no more than one (1) may be chosen from Group D no more than two (2) may be chosen from elsewhere within this training package, or from another endorsed training package, or from an accredited course.</p> <p>All elective units selected from outside this qualification must reflect current occupational and learning outcomes of this AQF qualification level.</p> <p>There are both licensed and non-licensed units of competency relating to high risk work in the Resources and Infrastructure Industry Training Package. To be appointed under any statutory requirements in related roles, units of competency should be selected to meet the state/territory licensing requirements.</p>	RII40120 Certificate IV in Surface Extraction Operations	<p>The following provides the packaging rules for this qualification, followed by the list of relevant units of competency.</p> <p>Total number of units = 13</p> <p>4 core units plus 9 elective units, of which:</p> <p>one (1) must be chosen from Group A at least two (2) must be chosen from Group B no more than four (4) may be chosen from Group C no more than one (1) may be chosen from Group D no more than two (2) may be chosen from elsewhere within this training package, or from another endorsed training package, or from an accredited course.</p> <p>Elective units must be relevant to the work environment and the qualification, maintain the overall integrity of the AQF alignment, not duplicate the outcome of another unit chosen for the qualification, and contribute to a valid industry-supported vocational outcome.</p> <p>The elective bank contains both licensed and non-licensed units of competency relating to high risk work in the resources and infrastructure industry. To be</p>	<p>Industry consultation and advice from the Metalliferous Mining, Coal Mining and Extractive IRCs supports that the qualification requires learners to apply knowledge and skills to demonstrate autonomy and judgement to perform tasks involving a broad range of day-to-day, operational activities in a given area of responsibility within surface extraction.</p> <p>The packaging rules require learners to undertake four core units of competency, each of which require learners to apply knowledge and skills in known or changing contexts and within established parameters. For example, <i>RIIGOV401E Apply, monitor and report on compliance systems</i>, <i>RIIRIS401E Apply site risk management system</i> and <i>RIIENV302E Apply environmentally sustainable work practices</i> provide the essential skills and knowledge for surface extraction supervisors or technical specialists to ensure the quantity and quality of the output of others and contribute to the development of technical solutions to non-routine problems.</p>

Current qualification	Current packaging rules	Updated qualification	Updated packaging rules	Rationale for qualification structure
	There are no prerequisites to imported units listed in this qualification. Where a unit is imported as an elective care must be taken to ensure that all prerequisites specified are complied with.		<p>appointed under any statutory requirements in related roles, units of competency should be selected to meet the state/territory licensing requirements.</p> <p>There are no prerequisites to imported units listed in this qualification. Where a unit is imported as an elective care must be taken to ensure that all prerequisites specified are complied with.</p>	
RII50115 Diploma in Surface Operations Management	<p>The following provides the packaging rules for this qualification, followed by the list of relevant units of competency.</p> <p>Total number of units = 13</p> <p>2 core units plus 11 elective units, of which:</p> <p>at least four (4) must be chosen from Group A no more than five (5) may be chosen from Group B up to two (2) may be chosen from elsewhere within this training package, or from another endorsed training package, or from an accredited course.</p> <p>All elective units selected from outside this qualification must reflect current occupational and learning outcomes of this AQF qualification level.</p> <p>There are no prerequisites to imported units listed in this qualification. Where a unit is imported as an elective care must be taken to ensure that all prerequisites specified are complied with.</p>	RII50120 Diploma in Surface Operations Management	<p>The following provides the packaging rules for this qualification, followed by the list of relevant units of competency.</p> <p>Total number of units = 13</p> <p>3 core units plus 10 elective units, of which:</p> <p>at least four (4) must be chosen from Group A no more than five (5) may be chosen from Group B no more than two (2) may be chosen from elsewhere within this training package, or from another endorsed training package, or from an accredited course.</p> <p>Elective units must be relevant to the work environment and the qualification, maintain the overall integrity of the AQF alignment, not duplicate the outcome of another unit chosen for the qualification, and contribute to a valid industry-supported vocational outcome.</p> <p>The elective bank contains both licensed and non-licensed units of competency relating to high risk work in the resources and infrastructure industry. To be appointed under any statutory requirements in related roles, units of</p>	<p>Industry consultation and advice from the Metalliferous Mining, Coal Mining and Extractive IRCs supports that the qualification requires learners to apply knowledge and skills to demonstrate autonomy and judgement and defined responsibility in planning and determining the selection of equipment, roles, and techniques for themselves and others across surface extraction operations.</p> <p>The packaging rules require learners to undertake three core units of competency, each of which require learners to apply knowledge and skills in known or changing contexts and within broad but established parameters. For example, <i>BSBWHS521 Ensure a safe workplace for a work area</i>, <i>RIIGOV501E Identify, implement and maintain legal compliance requirements</i> and <i>RIIRIS501E Implement and maintain management systems to control risk</i> provide the essential skills and knowledge for surface extraction managers to develop site specific work instructions and practices to ensure the implementation of the site management systems, plans and policies.</p>

Current qualification	Current packaging rules	Updated qualification	Updated packaging rules	Rationale for qualification structure
			<p>competency should be selected to meet the state/territory licensing requirements.</p> <p>There are no prerequisites to imported units listed in this qualification. Where a unit is imported as an elective care must be taken to ensure that all prerequisites specified are complied with.</p>	
RII60215 Advanced Diploma in Extractive Industries Management	<p>The following provides the packaging rules for this qualification, followed by the list of relevant units of competency.</p> <p>Total number of units = 14</p> <p>14 elective units, of which:</p> <p>at least ten (10) must be chosen from the electives listed no more than of four (4) units may come from elsewhere within this training package, or from another endorsed training package, or from an accredited course.</p> <p>All elective units selected from outside this qualification must reflect current occupational and learning outcomes of this AQF qualification level.</p> <p>There are no prerequisites to imported units listed in this qualification. Where a unit is imported as an elective care must be taken to ensure that all prerequisites specified are complied with.</p>	RII60220 Advanced Diploma in Extractive Industries Management	<p>The following provides the packaging rules for this qualification, followed by the list of relevant units of competency.</p> <p>Total number of units = 14</p> <p>3 core units plus 11 elective units, of which:</p> <p>at least five (5) must be chosen from Group A no more than five (5) may be chosen from Group B no more than two (2) may be chosen from elsewhere within this training package, or from another endorsed training package, or from an accredited course.</p> <p>Elective units must be relevant to the work environment and the qualification, maintain the overall integrity of the AQF alignment, not duplicate the outcome of another unit chosen for the qualification, and contribute to a valid industry-supported vocational outcome.</p> <p>The elective bank contains both licensed and non-licensed units of competency relating to high risk work in the resources and infrastructure industry. To be appointed under any statutory requirements in related roles, units of competency should be selected to meet the state/territory licensing requirements.</p>	<p>Industry consultation and advice from the Metalliferous Mining, Coal Mining and Extractive IRCs supports that the qualification requires learners to apply knowledge and skills to demonstrate autonomy and judgement and defined responsibility in planning and determining the selection of equipment, roles, and techniques for themselves and others across operations in surface extraction.</p> <p>The packaging rules require learners to undertake three core units of competency, each of which require learners to apply knowledge and skills in contexts that are subject to change and within broad parameters to provide specialist advice and functions. For example, <i>RIIGOV601E Establish, maintain and develop a statutory compliance management system</i>, <i>RIIRIS601E Establish and maintain the risk management system</i> and <i>RIIWHS601E Establish and maintain the work health and safety management system</i> provide the essential skills and knowledge for senior extractive industry managers to design complex projects, implement the client's site requirements and demonstrate self-directed application of theoretical and technical knowledge to initiate solutions to technical problems or management requirements.</p>

Current qualification	Current packaging rules	Updated qualification	Updated packaging rules	Rationale for qualification structure
			There are no prerequisites to imported units listed in this qualification. Where a unit is imported as an elective care must be taken to ensure that all prerequisites specified are complied with.	
RII20415 Certificate II in Underground Metalliferous Mining	<p>The following provides the packaging rules for this qualification, followed by the list of relevant units of competency.</p> <p>Total number of units = 10</p> <p>5 core units plus 5 elective units, of which:</p> <p>at least three (3) must be chosen from Group A no more than two (2) may be chosen from Group B no more than one (1) unit may be chosen from elsewhere within this training package, or from another endorsed training package, or from an accredited course.</p> <p>All elective units selected from outside this qualification must reflect current occupational and learning outcomes of this AQF qualification level.</p> <p>There are both licensed and non-licensed units of competency relating to high risk work in the Resources and Infrastructure Industry Training Package. To be appointed under any statutory requirements in related roles, units of competency should be selected to meet the state/territory licensing requirements.</p> <p>There are prerequisites to imported units listed in this qualification. Where a unit is imported as an elective care must be taken to ensure that all prerequisites specified are complied with.</p>	RII20420 Certificate II in Underground Metalliferous Mining	<p>The following provides the packaging rules for this qualification, followed by the list of relevant units of competency.</p> <p>Total number of units = 10</p> <p>5 core units plus</p> <p>5 elective units, of which:</p> <p>at least three (3) must be chosen from Group A no more than two (2) may be chosen from Group B no more than one (1) may be chosen from elsewhere within this training package, or from another endorsed training package, or from an accredited course.</p> <p>Elective units must be relevant to the work environment and the qualification, maintain the overall integrity of the AQF alignment, not duplicate the outcome of another unit chosen for the qualification, and contribute to a valid industry-supported vocational outcome.</p> <p>The elective bank contains both licensed and non-licensed units of competency relating to high risk work in the resources and infrastructure industry. To be appointed under any statutory requirements in related roles, units of competency should be selected to meet the state/territory licensing requirements.</p> <p>There are no prerequisites to imported units listed in this qualification. Where a</p>	<p>Industry consultation and advice from the Metalliferous Mining IRC supports that the qualification requires learners to apply knowledge and skills to demonstrate autonomy and limited judgement to support operations in underground metalliferous mining, in defined contexts working under direct supervision.</p> <p>The packaging rules require learners to undertake five core units of competency, each of which require learners to apply basic knowledge and skills in underground metalliferous mining environments, in structured and stable work contexts within narrow parameters. For example, <i>RIICOM201E Communicate in the workplace</i>, <i>RIIQUA201E Maintain and monitor site quality standards</i> and <i>RIIRIS201E Conduct local risk control</i> provide essential skills and knowledge entry level workers require to operate safely in structured and stable underground metalliferous mining contexts.</p>

Current qualification	Current packaging rules	Updated qualification	Updated packaging rules	Rationale for qualification structure
			unit is imported as an elective care must be taken to ensure that all prerequisites specified are complied with.	
RII20515 Certificate II in Resource Processing	<p>The following provides the packaging rules for this qualification, followed by the list of relevant units of competency.</p> <p>Total number of units = 10</p> <p>4 core units plus 6 elective units, of which:</p> <p>one (1) must be chosen from Group A at least four (4) must be chosen from Group B no more than one (1) may be chosen from Group C no more than one (1) unit may be chosen from elsewhere within this training package, or from another endorsed training package, or from an accredited course.</p> <p>All elective units selected from outside this qualification must reflect current occupational and learning outcomes of this AQF qualification level.</p> <p>There are both licensed and non-licensed units of competency relating to high risk work in the Resources and Infrastructure Industry Training Package. To be appointed under any statutory requirements in related roles, units of competency should be selected to meet the state/territory licensing requirements.</p> <p>There are prerequisites to imported units listed in this qualification. Where a unit is imported as an elective care must be taken to ensure that all prerequisites specified are complied with.</p>	RII20520 Certificate II in Resource Processing	<p>The following provides the packaging rules for this qualification, followed by the list of relevant units of competency.</p> <p>Total number of units = 10</p> <p>4 core units plus 6 elective units, of which:</p> <p>one (1) must be chosen from Group A at least four (4) must be chosen from Group B no more than one (1) may be chosen from Group C no more than one (1) may be chosen from elsewhere within this training package, or from another endorsed training package, or from an accredited course.</p> <p>Elective units must be relevant to the work environment and the qualification, maintain the overall integrity of the AQF alignment, not duplicate the outcome of another unit chosen for the qualification, and contribute to a valid industry-supported vocational outcome.</p> <p>The elective bank contains both licensed and non-licensed units of competency relating to high risk work in the resources and infrastructure industry. To be appointed under any statutory requirements in related roles, units of competency should be selected to meet the state/territory licensing requirements.</p> <p>There are no prerequisites to imported units listed in this qualification. Where a unit is imported as an elective care must</p>	<p>Industry consultation and advice from the Metalliferous Mining IRC supports that the qualification requires learners to apply knowledge and skills to demonstrate autonomy and limited judgement to support operations in resource processing, in defined contexts working under direct supervision.</p> <p>The packaging rules require learners to undertake four core units of competency, each of which require learners to apply basic knowledge and skills in resource processing environments, in structured and stable work contexts within narrow parameters. For example, <i>RIICOM301E Communicate information</i>, <i>RIIRIS201E Conduct local risk control</i> and <i>RIIWHS201E Work safely and follow WHS policies and procedures</i> provide essential skills and knowledge entry level workers require to operate safely in structured and stable resource processing contexts.</p>

Current qualification	Current packaging rules	Updated qualification	Updated packaging rules	Rationale for qualification structure
RII30315 Certificate III in Underground Metalliferous Mining	<p>The following provides the packaging rules for this qualification, followed by the list of relevant units of competency.</p> <p>Total number of units = 14</p> <p>6 core units plus 8 elective units, of which:</p> <p>at least five (5) must be chosen from Group A no more than three (3) may be chosen from Group B no more than two (2) units may come from elsewhere within this training package, or from another endorsed training package, or from an accredited course.</p> <p>All elective units selected from outside this qualification must reflect current occupational and learning outcomes of this AQF qualification level.</p> <p>There are both licensed and non-licensed units of competency relating to high risk work in the Resources and Infrastructure Industry Training Package. To be appointed under any statutory requirements in related roles, units of competency should be selected to meet the state/territory licensing requirements.</p> <p>There are prerequisites to imported units listed in this qualification. Where a unit is imported as an elective care must be taken to ensure that all prerequisites specified are complied with.</p> <p>A prerequisite must be considered in the total number of units chosen.</p>	RII30320 Certificate III in Underground Metalliferous Mining	<p>be taken to ensure that all prerequisites specified are complied with.</p> <p>Total number of units = 14</p> <p>6 core units plus 8 elective units, of which:</p> <p>at least six (6) units must be chosen from the electives below according to the chosen specialisation stream no more than two (2) may be chosen from elsewhere within this training package, or from another endorsed training package, or from an accredited course.</p> <p>The qualification has core and elective units of competency that cover the skills for the following four (4) specialist and one (1) general underground metalliferous mining streams: Stream 1 – Charge up Stream 2 – Development Stream 3 – Production Stream 4 – Services and infrastructure Stream 5 – General</p> <p>The core and elective unit requirements of one (1) stream must be met for this qualification to be awarded. The rules to achieve a specialisation are detailed at qualification end.</p> <p>Elective units must be relevant to the work environment and the qualification, maintain the overall integrity of the AQF alignment, not duplicate the outcome of another unit chosen for the qualification, and contribute to a valid industry-supported vocational outcome.</p> <p>The elective bank contains both licensed and non-licensed units of competency</p>	<p>Industry consultation and advice from the Metalliferous Mining IRC supports that the qualification requires learners to apply knowledge and skills to demonstrate autonomy and judgement in underground metalliferous mining, in varied contexts involving some application of discretion and judgement in selecting equipment, services or contingency measures.</p> <p>The packaging rules require learners to undertake six core units of competency, each of which require learners to apply knowledge and skills in known and stable contexts within established parameters. For example, <i>RIIENV201E Identify and assess environmental and heritage concerns</i>, <i>RIIQUA201E Maintain and monitor site quality standards</i> and <i>RIIMEX302D Assess ground conditions</i> provide essential skills and knowledge underground metalliferous miners require to provide theoretical advice and support a team.</p>

Current qualification	Current packaging rules	Updated qualification	Updated packaging rules	Rationale for qualification structure
			<p>relating to high risk work in the resources and infrastructure industry. To be appointed under any statutory requirements in related roles, units of competency should be selected to meet the state/territory licensing requirements.</p> <p>There are prerequisites to imported units listed in this qualification. Where a unit is imported as an elective care must be taken to ensure that all prerequisites specified are complied with.</p>	
RII30415 Certificate III in Resource Processing	<p>The following provides the packaging rules for this qualification, followed by the list of relevant units of competency.</p> <p>Total number of units = 13</p> <p>4 core units plus 9 elective units, of which:</p> <p>one (1) must be chosen from Group A at least six (6) must be chosen come from Group B no more than two (2) may be chosen from Group C no more than two (2) may be chosen from elsewhere within this training package, or from another endorsed training package, or from an accredited course. All elective units selected from outside this qualification must reflect current occupational and learning outcomes of this AQF qualification level.</p> <p>There are both licensed and non-licensed units of competency relating to high risk work in the Resources and Infrastructure Industry Training Package. To be appointed under any statutory requirements in related roles, units of competency should be selected to meet the state/territory licensing requirements.</p>	RII30420 Certificate III in Resource Processing	<p>The following provides the packaging rules for this qualification, followed by the list of relevant units of competency.</p> <p>Total number of units = 13 4 core units plus 9 elective units, of which: one (1) must be chosen from Group A at least six (6) must be chosen from Group B no more than two (2) may be chosen from Group C no more than two (2) may be chosen from elsewhere within this training package, or from another endorsed training package, or from an accredited course.</p> <p>Elective units must be relevant to the work environment and the qualification, maintain the overall integrity of the AQF alignment, not duplicate the outcome of another unit chosen for the qualification, and contribute to a valid industry-supported vocational outcome.</p> <p>The elective bank contains both licensed and non-licensed units of competency relating to high risk work in the resources and infrastructure industry. To be appointed under any statutory requirements in related roles, units of</p>	<p>Industry consultation and advice from the Metalliferous Mining IRC supports that the qualification requires learners to apply knowledge and skills to demonstrate autonomy and judgement in resource processing, in varied contexts involving some application of discretion and judgement in selecting equipment, services or contingency measures.</p> <p>The packaging rules require learners to undertake four core units of competency, each of which require learners to apply knowledge and skills in known and stable contexts within established parameters. For example, <i>RIICOM201E Communicate in the workplace</i>, <i>RIIRIS301E Apply risk management processes</i> and <i>RIIWHS201E Work safely and follow WHS policies and procedures</i> provide essential skills and knowledge resource processing workers require to provide theoretical advice and support a team.</p>

Current qualification	Current packaging rules	Updated qualification	Updated packaging rules	Rationale for qualification structure
	There are prerequisites to imported units listed in this qualification. Where a unit is imported as an elective care must be taken to ensure that all prerequisites specified are complied with.		competency should be selected to meet the state/territory licensing requirements. There are prerequisites to imported units listed in this qualification. Where a unit is imported as an elective care must be taken to ensure that all prerequisites specified are complied with.	
RII40315 Certificate IV in Metalliferous Mining Operations (Underground)	<p>The following provides the packaging rules for this qualification, followed by the list of relevant units of competency.</p> <p>Total number of units = 16</p> <p>8 core units plus 8 elective units, of which:</p> <p>at least six (6) must be chosen from the electives listed no more than two (2) may be chosen from elsewhere within this training package, or from another endorsed training package, or from an accredited course. All elective units selected from outside this qualification must reflect current occupational and learning outcomes of this AQF qualification level.</p> <p>There are no prerequisites to imported units listed in this qualification. Where a unit is imported as an elective care must be taken to ensure that all prerequisites specified are complied with.</p>	RII40320 Certificate IV in Underground Metalliferous Mining Operations	<p>The following provides the packaging rules for this qualification, followed by the list of relevant units of competency.</p> <p>Total number of units = 16</p> <p>8 core units plus 8 elective units, of which:</p> <p>at least six (6) must be chosen from the electives listed no more than two (2) may be chosen from elsewhere within this training package, or from another endorsed training package, or from an accredited course.</p> <p>Elective units must be relevant to the work environment and the qualification, maintain the overall integrity of the AQF alignment, not duplicate the outcome of another unit chosen for the qualification, and contribute to a valid industry-supported vocational outcome.</p> <p>The elective bank contains both licensed and non-licensed units of competency relating to high risk work in the resources and infrastructure industry. To be appointed under any statutory requirements in related roles, units of competency should be selected to meet the state/territory licensing requirements.</p> <p>There are no prerequisites to imported</p>	<p>Industry consultation and advice from the Metalliferous Mining IRC supports that the qualification requires learners to apply knowledge and skills to demonstrate autonomy and judgement to perform tasks involving a broad range of day-to-day, operational activities in a given area of responsibility within underground metalliferous mining.</p> <p>The packaging rules require learners to undertake eight core units of competency, each of which require learners to apply knowledge and skills in known or changing contexts and within established parameters. For example, <i>BSBWHS411 Implement and monitor WHS policies, procedures and programs</i>, <i>RIIGOV401E Apply, monitor and report on compliance systems</i> and <i>RIIMEX404E Apply and monitor systems for stable mining</i> provide the essential skills and knowledge for underground metalliferous mining supervisors or technical specialists to ensure the quantity and quality of the output of others and contribute to the development of technical solutions to non-routine problems.</p>

Current qualification	Current packaging rules	Updated qualification	Updated packaging rules	Rationale for qualification structure
RII40515 Certificate IV in Resource Processing	<p>The following provides the packaging rules for this qualification, followed by the list of relevant units of competency.</p> <p>Total number of units = 12</p> <p>4 core units plus 8 elective units, of which:</p> <p>one (1) must be chosen from Group A at least one (1) must be chosen from Group B no more than four (4) may be chosen from the Group C no more than two (2) units may come from elsewhere within this training package, or from another endorsed training package, or from an accredited course. All elective units selected from outside this qualification must reflect current occupational and learning outcomes of this AQF qualification level.</p> <p>There are both licensed and non-licensed units of competency relating to high risk work in the Resources and Infrastructure Industry Training Package. To be appointed under any statutory requirements in related roles, units of competency should be selected to meet the state/territory licensing requirements.</p> <p>There are prerequisites to imported units listed in this qualification. Where a unit is imported as an elective care must be taken to ensure that all prerequisites specified are complied with.</p>	RII40520 Certificate IV in Resource Processing	<p>units listed in this qualification. Where a unit is imported as an elective care must be taken to ensure that all prerequisites specified are complied with.</p> <p>The following provides the packaging rules for this qualification, followed by the list of relevant units of competency.</p> <p>Total number of units = 12</p> <p>4 core units plus 8 elective units, of which:</p> <p>one (1) must be chosen from Group A at least one (1) must be chosen from Group B no more than four (4) may be chosen from the Group C no more than two (2) may be chosen from elsewhere within this training package, or from another endorsed training package, or from an accredited course.</p> <p>Elective units must be relevant to the work environment and the qualification, maintain the overall integrity of the AQF alignment, not duplicate the outcome of another unit chosen for the qualification, and contribute to a valid industry-supported vocational outcome.</p> <p>The elective bank contains both licensed and non-licensed units of competency relating to high risk work in the resources and infrastructure industry. To be appointed under any statutory requirements in related roles, units of competency should be selected to meet the state/territory licensing requirements.</p> <p>There are prerequisites to imported units listed in this qualification. Where a unit is</p>	<p>Industry consultation and advice from the Metalliferous Mining IRC supports that the qualification requires learners to apply knowledge and skills to demonstrate autonomy and judgement to perform tasks involving a broad range of day-to-day, operational activities in a given area of responsibility within resource processing.</p> <p>The packaging rules require learners to undertake four core units of competency, each of which require learners to apply knowledge and skills in known or changing contexts and within established parameters. For example, <i>RIICOM301E Communicate information</i>, <i>RIIGOV401E Apply, monitor and report on compliance systems</i> and <i>RIIWH301E Conduct safety and health investigations</i> provide the essential skills and knowledge for resource processing supervisors or technical specialists to ensure the quantity and quality of the output of others and contribute to the development of technical solutions to non-routine problems.</p>

Current qualification	Current packaging rules	Updated qualification	Updated packaging rules	Rationale for qualification structure
RII60115 Advanced Diploma of Metalliferous Mining	<p>The qualification has core and elective units of competency requirements that cover the general and specialist skills for two (2) specialist streams.</p> <p>Stream 1 – Open Cut Metalliferous Mining</p> <p>Stream 2 – Underground Metalliferous Mining</p> <p>The core units and requirements of one (1) stream must be met for award of this qualification.</p> <p>Stream 1 – Open Cut Metalliferous Mining</p> <p>Total number of units = 14</p> <p>8 core units plus</p> <p>6 elective units, of which:</p> <p>two (2) must be chosen from Group A at least two (2) must be chosen from Group C</p> <p>no more than two (2) units may be chosen come from elsewhere within this training package, or from another endorsed training package, or from an accredited course.</p> <p>Stream 2 – Underground Metalliferous Mining</p> <p>Total number of units = 14</p> <p>8 core units plus</p> <p>6 elective units, of which:</p> <p>three (3) must be chosen from Group B at least two (2) must be chosen from Group</p>	RII60120 Advanced Diploma of Metalliferous Mining	<p>imported as an elective care must be taken to ensure that all prerequisites specified are complied with.</p> <p>Total number of units = 14 8 core units plus 6 elective units, of which:</p> <p>units must be chosen from the electives below according to the chosen specialisation stream.</p> <p>The qualification has core and elective units of competency requirements that cover the skills for two (2) specialist streams.</p> <p>Stream 1 – Open Cut Stream 2 – Underground</p> <p>The core and elective unit requirements of one (1) stream must be met for this qualification to be awarded.</p> <p>Elective units must be relevant to the work environment and the qualification, maintain the overall integrity of the AQF alignment, not duplicate the outcome of another unit chosen for the qualification, and contribute to a valid industry-supported vocational outcome.</p> <p>The elective bank contains both licensed and non-licensed units of competency relating to high risk work in the resources and infrastructure industry. To be appointed under any statutory requirements in related roles, units of competency should be selected to meet the state/territory licensing requirements.</p> <p>There are no prerequisites to imported units listed in this qualification. Where a unit is imported as an elective care must be taken to ensure that all prerequisites</p>	<p>Industry consultation and advice from the Metalliferous Mining IRC supports that the qualification requires learners to apply knowledge and skills to demonstrate autonomy and judgement and defined responsibility in planning and determining the selection of equipment, roles, and techniques for themselves and others across operations in metalliferous mining.</p> <p>The packaging rules require learners to undertake eight core units of competency, each of which require learners to apply knowledge and skills in contexts that are subject to change and within broad parameters to provide specialist advice and functions. For example, <i>RIIENV601E Establish and maintain the environmental management system</i>, <i>RIIRIS601E Establish and maintain the risk management system</i> and <i>RIIRA1601D Establish and maintain the site infrastructure and fixed plant systems</i> provide the essential skills and knowledge for senior metalliferous miners to manage complex projects, implement the client's site requirements and demonstrate self-directed application of theoretical and technical knowledge to initiate solutions to technical problems or management requirements.</p>

Current qualification	Current packaging rules	Updated qualification	Updated packaging rules	Rationale for qualification structure
	<p>C</p> <p>no more than one (1) unit may be chosen from elsewhere within this training package, or from another endorsed training package, or from an accredited course.</p> <p>All elective units selected from outside this qualification must reflect current occupational and learning outcomes of this AQF qualification level.</p> <p>There are no prerequisites to imported units listed in this qualification. Where a unit is imported as an elective, care must be taken to ensure that all prerequisites specified are complied with.</p>		<p>specified are complied with.</p>	

Table 12 Additional information on qualifications and job roles addressed by this Case for Endorsement

Qualification	Modification history	ANZSCO code/job role(s)	2015 enrolments	2016 enrolments	2017 enrolments	2018 enrolments	2019 enrolments	Employment levels and projections	Rationale for low enrolment levels
RII20215 Certificate II in Surface Extraction Operations	Last modified December 2015. Released with RII Training Package version 2.0.	712212 Process and Resources Engineering - Miner	8	5,378	11,155	7,840	6,925	2019: 58,363 2024: 63,972	N/A
RII30115 Certificate III in Surface Extraction Operations	Last modified December 2015. Released with RII Training Package version 2.0.	712212 Process and Resources Engineering - Miner	1	2,969	14,685	13,293	9,761	2019: 58,363 2024: 63,972	N/A
RII40115 Certificate IV in Surface Extraction Operations	Last modified December 2015. Released with RII Training Package version 2.0.	312611 Process and Resources Engineering – Safety Inspector	9	217	224	104	129	2019: 4,344 2024: 4,739	N/A
RII50115 Diploma in Surface Operations Management	Last modified December 2015. Released with RII Training Package version 2.0.	133513 Process and Resources Engineering - Production Manager (Mining)	-	94	159	258	286	2019: 57,380 2024: 57,214	N/A
RII60215 Advanced Diploma in Extractive	Last modified December 2015.	133513 Process and Resources	-	14	60	83	20	2019: 57,380 2024: 57,214	This qualification relates to specialised

Qualification	Modification history	ANZSCO code/job role(s)	2015 enrolments	2016 enrolments	2017 enrolments	2018 enrolments	2019 enrolments	Employment levels and projections	Rationale for low enrolment levels
Industries Management	Released with RII Training Package version 2.0.	Engineering - Production Manager (Mining)							operational management roles and skill sets in extractive industries. Stakeholder consultation indicates this qualification remains relevant to occupational outcomes demanded by industry.
RII20415 Certificate II in Underground Metalliferous Mining	Last modified December 2015. Released with RII Training Package version 2.0.	712212 Process and Resources Engineering - Miner	9	203	260	777	135	2019: 58,363 2024: 63,972	N/A
RII20515 Certificate II in Resource Processing	Last modified December 2015. Released with RII Training Package version 2.0.	712212 Process and Resources Engineering - Bulk Materials Handling Plant Operator	-	33	489	691	435	2019: 58,363 2024: 63,972	N/A
RII30315 Certificate III in Underground Metalliferous Mining	Last modified December 2015. Released with RII	712212 Process and Resources Engineering - Miner	15	93	212	190	238	2019: 58,363 2024: 63,972	N/A

Qualification	Modification history	ANZSCO code/job role(s)	2015 enrolments	2016 enrolments	2017 enrolments	2018 enrolments	2019 enrolments	Employment levels and projections	Rationale for low enrolment levels
	Training Package version 2.0.								
RII30415 Certificate III in Resource Processing	Last modified December 2015. Released with RII Training Package version 2.0.	712212 Process and Resources Engineering - Engineering Production Worker	3	185	525	533	826	2019: 58,363 2024: 63,972	N/A
RII30615 Certificate III in Small Mining Operations	Last modified December 2015. Released with RII Training Package version 2.0.	712212 Process and Resources Engineering - Miner	-	-	-	-	-	2019: 58,363 2024: 63,972	Qualification proposed for deletion.
RII40315 Certificate IV in Metalliferous Mining Operations (Underground)	Last modified December 2015. Released with RII Training Package version 2.0.	312913 Process and Resources Engineering - Mine Deputy	-	78	159	83	85	2019: 25,096 2024: 28,820	N/A
RII40515 Certificate IV in Resource Processing	Last modified December 2015. Released with RII Training Package version 2.0.	712212 Process and Resources Engineering - Miner	-	15	15	10	9	2019: 58,363 2024: 63,972	This qualification relates to specialised supervisory roles and skill sets in coal and metal processing. Stakeholder consultation

Qualification	Modification history	ANZSCO code/job role(s)	2015 enrolments	2016 enrolments	2017 enrolments	2018 enrolments	2019 enrolments	Employment levels and projections	Rationale for low enrolment levels
									indicates this qualification remains relevant to occupational outcomes demanded by industry.
RII50215 Diploma of Underground Metalliferous Mining Management	Last modified December 2015. Released with RII Training Package version 2.0.	133513 Process and Resources Engineering - Production Manager (Mining)	No data available	No data available	No data available	No data available	No data available	2019: 57,380 2024: 57,214	Qualification proposed for deletion.
RII50315 Diploma of Minerals Processing	Last modified December 2015. Released with RII Training Package version 2.0.	133513 Process and Resources Engineering - Production Manager (Mining)	-	-	-	6	2	2019: 57,380 2024: 57,214	Qualification proposed for deletion.
RII60115 Advanced Diploma of Metalliferous Mining	Last modified December 2015. Released with RII Training Package version 2.0.	133513 Process and Resources Engineering - Production Manager (Mining)	-	-	4	6	9	2019: 57,380 2024: 57,214	This qualification relates to highly specialised job roles and skill sets in mining. It is a requirement for statutory roles in open cut and underground mining in New South Wales, including for quarry managers and

Qualification	Modification history	ANZSCO code/job role(s)	2015 enrolments	2016 enrolments	2017 enrolments	2018 enrolments	2019 enrolments	Employment levels and projections	Rationale for low enrolment levels
									mining engineering managers for mines other than coal mines.

Appendix 7. Training products proposed for deletion

The following table outlines historical enrolment data for training products included in this Case for Endorsement to be deleted with the publication of Version 7.0 of RII Resources and Infrastructure Industry Training Package on the National Register.

Table 13 Historical enrolment data for training products to be deleted from the National Register

Training product code and title	2015	2016	2017	2018	2019
RII30615 Certificate III in Small Mining Operations	-	-	-	-	-
RII50215 Diploma of Underground Metalliferous Mining Management	No data available	No data available	No data available	No data available	No data available
RII50315 Diploma of Minerals Processing	-	-	-	6	2
RIIMSM301D Establish a mining claim	No data available	No data available	No data available	No data available	No data available
RIIMSM302D Plan small mine operations	No data available	No data available	No data available	No data available	No data available
RIIMSM303D Install underground shaft	No data available	No data available	No data available	No data available	No data available
RIIMSM304D Inspect small mines operations	No data available	No data available	No data available	No data available	2
RIIMSM305D Conduct materials extraction operations underground	No data available	No data available	No data available	No data available	No data available
RIIMSM306D Design, develop and maintain pillar system and ground control	No data available	No data available	No data available	No data available	No data available

Appendix 8. Substantiation of determination of equivalence or non-equivalence of training products

The Mining and Extractive IRCs have confirmed the equivalence or non-equivalence of all training products on scope for projects 3B Metalliferous Mining and 3C Extractive.

Table 14 Substantiation of determination of RII V7.0 training products

Code and title RII Version 6.0	Code and title RII Version 7.0	Substantiation	Equivalence
RII20215 Certificate II in Surface Extraction Operations	RII20220 Certificate II in Surface Extraction Operations	Elective units amended to reflect skills required by entry level workers in the resources and infrastructure industry. BSB units of competency updated to align with BSB Training Package V7.0. Mining and Extractive IRCs agreed that the skills and knowledge required to achieve the occupational outcomes can be mapped to the occupational outcomes of the superseded version.	E
RII20415 Certificate II in Underground Metalliferous Mining	RII20420 Certificate II in Underground Metalliferous Mining	Elective units amended to reflect skills required by entry level workers in the resources and infrastructure industry. Mining and Extractive IRCs agreed that the skills and knowledge required to achieve the occupational outcomes can be mapped to the occupational outcomes of the superseded version.	E
RII20515 Certificate II in Resource Processing	RII20520 Certificate II in Resource Processing	Elective units amended to reflect skills required by entry level workers in the resources and infrastructure industry. BSB units of competency updated to align with BSB Training Package V7.0. Mining and Extractive IRCs agreed that the skills and knowledge required to achieve the occupational outcomes can be mapped to the occupational outcomes of the superseded version.	E
RII30315 Certificate III in Underground Metalliferous Mining	RII30320 Certificate III in Underground Metalliferous Mining	Packaging rules amended to better reflect industry needs, including the introduction of specialisation streams. Elective units amended to reflect skills required by workers in the resources and infrastructure industry. Mining and Extractive IRCs agreed that the skills and knowledge required to achieve the occupational outcomes can be mapped to the occupational outcomes of the superseded version.	E
RII30415 Certificate III in Resource Processing	RII30420 Certificate III in Resource Processing	Elective units amended to reflect skills required by workers in the resources and infrastructure industry. BSB units of competency updated to align with BSB Training Package V7.0. Mining and Extractive IRCs agreed that the skills and knowledge required to achieve the occupational outcomes can be mapped to the occupational outcomes of the superseded version.	E
RII30615 Certificate III in Small Mining Operations	N/A	Deleted due to low industry use and relevance, rendering the qualification superfluous and obsolete.	D
RII40115 Certificate IV in Surface Extraction Operations	RII40120 Certificate IV in Surface Extraction Operations	Core and elective units amended to reflect skills required by workers in the resources and infrastructure industry. BSB units of competency updated to align with BSB Training Package V7.0. Mining and Extractive IRCs agreed that the skills and knowledge required to achieve the occupational outcomes can be mapped to the occupational outcomes of the superseded version.	E
RII40315 Certificate IV in Metalliferous Mining Operations	RII40320 Certificate IV in Underground Metalliferous Mining Operations	Unit updated to their latest versions. Mining and Extractive IRCs agreed that the skills and knowledge required to achieve the occupational outcomes can be mapped to the occupational outcomes of the superseded version.	E

(Underground)			
RII40515 Certificate IV in Resource Processing	RII40520 Certificate IV in Resource Processing	Elective units amended to reflect skills required by workers in the resources and infrastructure industry. Mining and Extractive IRCs agreed that the skills and knowledge required to achieve the occupational outcomes can be mapped to the occupational outcomes of the superseded version.	E
RII50115 Diploma of Surface Operations Management	RII50120 Diploma of Surface Operations Management	Core and elective units amended to reflect skills required by workers in the resources and infrastructure industry. BSB units of competency updated to align with BSB Training Package V7.0. Mining and Extractive IRCs agreed that the skills and knowledge required to achieve the occupational outcomes can be mapped to the occupational outcomes of the superseded version.	E
RII50215 Diploma of Underground Metalliferous Mining Management	N/A	Deleted due to low industry use and relevance, rendering the qualification superfluous and obsolete.	D
RII50315 Diploma of Minerals Processing	N/A	Deleted due to low industry use and relevance, rendering the qualification superfluous and obsolete.	D
RII60115 Advanced Diploma of Metalliferous Mining	RII60120 Advanced Diploma of Metalliferous Mining	Units updated to their latest versions. Mining and Extractive IRCs agreed that the skills and knowledge required to achieve the occupational outcomes can be mapped to the occupational outcomes of the superseded version.	E
RII60215 Advanced Diploma of Extractive Industries Management	RII60220 Advanced Diploma of Extractive Industries Management	Packaging rules significantly amended to better reflect industry needs. Code units added. Elective units amended to reflect skills required by entry level workers in the resources and infrastructure industry. BSB units of competency updated to align with BSB Training Package V7.0. Mining and Extractive IRCs agreed that the skills and knowledge required to achieve the occupational outcomes can be mapped to the occupational outcomes of the superseded version.	NE
RIIBLA602D Establish and maintain a blasting system	RIIBLA602E Establish and maintain explosives safety and security management systems	Title amended to better reflect unit. Application amended to reflect occupational outcomes. Significant restructure and amendments to PC. Restructure of PE and KE to clarify training outcomes. KE requirements added which were not previously included. Mining and Extractive IRCs agreed that the skills and knowledge required to achieve the occupational outcomes cannot be mapped to the occupational outcomes of the superseded version.	NE
N/A	RIIMCU218 Work safely with polymeric chemicals in underground coal mining	New unit.	NC
N/A	RIIMCU312 Conduct polymeric chemical operations in underground coal mining	New unit.	NC
N/A	RIIMCU313 Mix and pump polymeric chemicals in underground coal mining	New unit.	NC
N/A	RIIMCU314 Transport and handle polymeric chemicals in underground coal mining	New unit.	NC
N/A	RIIMCU409 Apply and monitor polymeric chemical management plans	New unit.	NC

RIIMEX201D Suppress dust in open-cut environment	RIIMEX201E Suppress dust in open-cut environments	Minor updates to PC, PE and KE to increase consistency of language with other units and alignment of training product policy. FS changed for clarity. Restructured PE and KE to clarify training outcomes and added relevant KE requirements not previously included. Mining and Extractive IRCs agreed that the skills and knowledge required to achieve the occupational outcomes can be mapped to the occupational outcomes of the superseded version.	E
RIIMEX402D Supervise dredging operations	RIIMEX402E Supervise dredging operations	Minor updates to PC, PE and KE to increase consistency of language with other units and alignment of training product policy. FS changed for clarity. Restructured PE and KE to clarify training outcomes and added relevant KE requirements not previously included. Mining and Extractive IRCs agreed that the skills and knowledge required to achieve the occupational outcomes can be mapped to the occupational outcomes of the superseded version.	E
N/A	RIIMEX408 Supervise overburden dump operations	New unit.	NC
RIIMEX503D Manage dredging operations	RIIMEX503E Manage dredging operations	Minor updates to PC, PE and KE to increase consistency of language with other units and alignment of training product policy. FS changed for clarity. Restructured PE and KE to clarify training outcomes and added relevant KE requirements not previously included. Mining and Extractive IRCs agreed that the skills and knowledge required to achieve the occupational outcomes can be mapped to the occupational outcomes of the superseded version.	E
RIIRAI508D Implement mine services systems	RIIRAI508E Implement mine services systems	Minor updates to PC, PE and KE to increase consistency of language with other units and alignment of training product policy. FS changed for clarity. Restructured PE and KE to clarify training outcomes and added relevant KE requirements not previously included. Mining and Extractive IRCs agreed that the skills and knowledge required to achieve the occupational outcomes can be mapped to the occupational outcomes of the superseded version.	E
RIISRM301D Blend stockpile materials	RIISRM301E Blend stockpile materials	Minor updates to PC, PE and KE to increase consistency of language with other units and alignment of training product policy. FS changed for clarity. Restructured PE and KE to clarify training outcomes and added relevant KE requirements not previously included. Mining and Extractive IRCs agreed that the skills and knowledge required to achieve the occupational outcomes can be mapped to the occupational outcomes of the superseded version.	E
RIISRM302D Conduct stockpile reclaiming operations	RIISRM302E Conduct stockpile reclaiming operations	Minor updates to PC, PE and KE to increase consistency of language with other units and alignment of training product policy. FS changed for clarity. Restructured PE and KE to clarify training outcomes and added relevant KE requirements not previously included. Mining and Extractive IRCs agreed that the skills and knowledge required to achieve the occupational outcomes can be mapped to the occupational outcomes of the superseded version.	E
RIISRM303D Move and position materials to form stockpiles	RIISRM303E Move and position materials to form stockpiles	Minor updates to PC, PE and KE to increase consistency of language with other units and alignment of training product policy. FS changed for clarity. Restructured PE and KE to clarify training outcomes and added relevant KE requirements not previously included. Mining and Extractive IRCs agreed that the skills and knowledge required to achieve the occupational outcomes can be mapped to the occupational outcomes of the superseded version.	E
RIISRM304D Maintain stockpiles	RIISRM304E Maintain stockpiles	Minor updates to PC, PE and KE to increase consistency of language with other units and alignment of training product policy. FS changed for clarity. Restructured PE and KE to clarify training outcomes and added relevant KE requirements not previously included. Mining and Extractive IRCs agreed that the skills and knowledge required to achieve the occupational outcomes can be mapped to the occupational outcomes of the superseded version.	E
RIISRM501D Implement	RIISRM501E Implement	Title changed to reflect policy. Minor updates to PC, PE and KE to increase consistency of language with other	E

the stockpile management plan	stockpile management plans	units and alignment of training product policy. FS changed for clarity. Restructured PE and KE to clarify training outcomes and added relevant KE requirements not previously included. Mining and Extractive IRCs agreed that the skills and knowledge required to achieve the occupational outcomes can be mapped to the occupational outcomes of the superseded version.	
RIISRM502D Design stockpile formations and reclaiming systems	RIISRM502E Design stockpile formations and reclaiming systems	Minor updates to PC, PE and KE to increase consistency of language with other units and alignment of training product policy. FS changed for clarity. Restructured PE and KE to clarify training outcomes and added relevant KE requirements not previously included. Mining and Extractive IRCs agreed that the skills and knowledge required to achieve the occupational outcomes can be mapped to the occupational outcomes of the superseded version.	E
RIISRM601D Establish and maintain the stockpile management system	RIISRM601E Establish and maintain stockpile management systems	Title changed to reflect policy. Minor updates to PC, PE and KE to increase consistency of language with other units and alignment of training product policy. FS changed for clarity. Restructured PE and KE to clarify training outcomes and added relevant KE requirements not previously included. Mining and Extractive IRCs agreed that the skills and knowledge required to achieve the occupational outcomes can be mapped to the occupational outcomes of the superseded version.	E
RIIWBP201D Treat and dispose of rejects and tailings	RIIWBP201E Treat and dispose of rejects and tailings	Minor updates to PC, PE and KE to increase consistency of language with other units and alignment of training product policy. FS changed for clarity. Restructured PE and KE to clarify training outcomes and added relevant KE requirements not previously included. Mining and Extractive IRCs agreed that the skills and knowledge required to achieve the occupational outcomes can be mapped to the occupational outcomes of the superseded version.	E
RIIWBP202D Distribute tailings	RIIWBP202E Distribute tailings	Minor updates to PC, PE and KE to increase consistency of language with other units and alignment of training product policy. FS changed for clarity. Restructured PE and KE to clarify training outcomes and added relevant KE requirements not previously included. Mining and Extractive IRCs agreed that the skills and knowledge required to achieve the occupational outcomes can be mapped to the occupational outcomes of the superseded version.	E
RIIWBP203D Monitor tailings dam environment	RIIWBP203E Monitor tailings dam environment	Minor updates to PC, PE and KE to increase consistency of language with other units and alignment of training product policy. FS changed for clarity. Restructured PE and KE to clarify training outcomes and added relevant KE requirements not previously included. Mining and Extractive IRCs agreed that the skills and knowledge required to achieve the occupational outcomes can be mapped to the occupational outcomes of the superseded version.	E

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