



Australian Government

RIISAM403D Commission/recommission plant

Release: 2

RIISAM403D Commission/recommission plant

Modification History

Release	Comment
1	This unit replaces RIISAM403A Commission/recommission plant
2	Required frequency and volume of evidence amended in Performance evidence. Substantial amendments made in Assessment Conditions field, including: references to Industry Sectors, assessor and subject matter expert experience requirements, how assessment should be conducted and what it should confirm.

Application

This unit describes a participant's skills and knowledge required to commission/recommission plant in the Resources and Infrastructure Industries.

This unit is appropriate for those working in supervisory or technical specialist roles.

No licensing, legislation or certification requirements apply to this unit at the time of publication.

Elements and Performance Criteria

1. Plan and prepare to commission/recommission plant	1.1 Access, interpret and apply commissioning and recommissioning plant documentation and ensure the work activity is compliant 1.2 Obtain, read, interpret, clarify and confirm work requirements 1.3 Identify, address and report potential risks, hazards and environmental issues and implement control measures 1.4 Select and wear personal protective equipment appropriate for the work activity 1.5 Access, interpret, confirm and apply design process principles 1.6 Identify and confirm the purpose of the plant and equipment 1.7 Confirm the design meets the identified purpose
2. Participate in hazard and operability studies	2.1 Identify and confirm existing process/procedures apply to hazard and operability studies

	2.2	Participate in a hazard and operability study
	2.3	Undertake investigations following hazard study
	2.4	Record and process written reports on findings
3. Participate in acceptance of plant/equipment	3.1	Undertake pre-commissioning activities
	3.2	Complete pre-commissioning documentation
	3.3	Identify, record and report problems or non-conformances
4. Conduct test runs/trials	4.1	Conduct trials/test runs
	4.2	Record performance data and process written reports
5. Evaluate results and identify modifications	5.1	Identify and record modifications and recommended improvements
	5.2	Complete written documentation and communicate to appropriate personnel

Foundation Skills

Foundation skills essential to performance are explicit in the performance criteria of this unit. Further information is available in the Resources and Infrastructure Industry Training Package Companion Volume.

Unit Mapping Information

RIISAM403B Commission/recommission plant

Links

Companion Volume implementation guides are found in VETNet -

<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=88a61002-9a21-4386-aaf8-69c76e675272>

Assessment Requirements for RIISAM403D Commission/recommission plant

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Performance Evidence

Evidence is required to be collected that demonstrates a candidate's competency in this unit. Evidence must be relevant to the roles within this sector's work operations and satisfy all of the requirements of the performance criteria of this unit and include that the candidate:

- locates and applies relevant legislation, documentation, policies and procedures
- implements the requirements, procedures and techniques for the safe, effective and efficient commissioning or recommissioning of plant including:
 - managing information
 - accessing, interpreting and applying technical and safety information
 - keeping records of plant and equipment
 - complying with environmental requirements
 - analysing tasks
 - providing information, instruction, training and supervision
 - proposing practical recommendations for identified key issues
- works effectively with others to undertake and complete the commissioning or recommissioning of plant that meets all the required outcomes including:
 - complying with written and verbal reporting requirements and procedures
 - communicating clearly and concisely with others to receive and clarify work instructions
 - communicating clearly and concisely with others to coordinate work activities
 - identifying and clearly communicating key issues
- demonstrates completion of the commissioning or recommissioning of plant that safely, effectively and efficiently meets all of the required outcomes on more than one (1) occasion including:
 - contributing to the design of plant and/or equipment

- participating in hazard and operability studies
- conducting test runs and trials
- evaluating test results and identifying modifications
- documenting and reporting on findings
- communicating findings

Knowledge Evidence

The candidate must demonstrate knowledge in commissioning/recommissioning plants through:

- accessing, interpreting and applying legislative, organisation and site requirements and procedures for:
 - hazard and risk identification and management
 - statutory compliance
 - work health and safety
 - environmental issues
 - policy management
 - equipment maintenance
- problem solving techniques
- report writing techniques
- diagnostic/fault finding techniques

Assessment Conditions

- An assessor of this unit must satisfy the requirements of the NVR/AQTF or their successors; and Industry regulations for certification and licensing; and,
- this unit is best assessed in the context of this sector's work environment;
- where personal safety or environmental damage are limiting factors, assessment may occur in a simulated environment provided it is realistic and sufficiently rigorous to cover all aspects of this sector's workplace performance, including environment, task skills, task management skills, contingency management skills and job role environment skills; and,
- this unit must be assessed in compliance with relevant legislation/regulation and using policies, procedures, processes and operational manuals directly related to the industry sector for which it is being assessed; and,
- assessment may be conducted in conjunction with the assessment of other Units of Competency; and,
- assessment must confirm consistent performance can be applied in a range of relevant workplace circumstances; and,
- assessors must demonstrate the performance evidence, and knowledge evidence as outlined in this Unit of Competency, and through the minimum years of current* work experience specified below in an Industry sector relevant to the outcomes of the unit; or,

- where the assessor does not meet experience requirements a co-assessment or partnership arrangement must exist between the qualified assessor and an Industry subject matter expert. The Industry subject matter expert should hold the unit being assessed (or an equivalent unit) and/or demonstrate equivalence of skills and knowledge at the unit level. An Industry technical expert must also demonstrate skills and knowledge from the minimum years of current work experience specified below in the Industry sector, including time spent in roles related to the unit being assessed; and,
- assessor and Industry subject matter expert requirements differ depending on the Australian Qualifications Framework Level (AQF) of the qualification being assessed and/or Industry Sector as follows:

Industry sector	AQF** Level	Required assessor or Industry subject matter expert experience
Drilling, Metalliferous Mining, Coal Mining, Extractive (Quarrying) and Civil Construction	1	1 Year
	2	2 Years
Drilling, Coal Mining and Extractive (Quarrying)	3-6	3 Years
Metalliferous Mining and Civil Construction	3-6	5 Years
Other sectors	Where this Unit is being assessed outside of the Resources and Infrastructure Sectors assessor and/or Industry subject matter expert experience should be in-line with industry standards for the sector in which it is being assessed and where no Industry standard is specified should comply with any relevant regulation.	

*Assessors can demonstrate current work experience through employment within Industry in a role relevant to the outcomes of the Unit; or, for external assessors this can be demonstrated through exposure to Industry by conducting frequent site assessments across various locations.

**Where a unit is being delivered outside of a Qualification the first numeric character in the Unit code should be considered to indicate the AQF level

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