



Australian Government

RIISAM403E Commission/recommission plant

Release: 1

RIISAM403E Commission/recommission plant

Modification History

Release	Comments
Release 1	This version first released with RII Resources and Infrastructure Industry Training Package Version 5.0.

Application

This unit describes the skills and knowledge required to commission/recommission plant in the resources and infrastructure industries.

It applies to those working in supervisory roles. They are generally responsible for the output of others, contribute to the development of technical solutions to non-routine problems and apply management plans to the workplace.

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

Elements and Performance Criteria

ELEMENT	PERFORMANCE CRITERIA
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
1. Plan and prepare to commission/recommission plant	1.1 Obtain, interpret and confirm work requirements 1.2 Access, interpret and apply documentation required to commission/recommission plant 1.3 Identify, address and report potential risks, hazards and environmental issues and implement control measures according to workplace procedures 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 and procedures that apply to hazard and operability studies 2.2 Participate in a hazard and operability study 2.3 Undertake investigations following hazard study

ELEMENT	PERFORMANCE CRITERIA
	2.4 Record and process written reports on findings according to workplace procedures
3. Participate in acceptance of plant/equipment	3.1 Undertake pre-commissioning activities 3.2 Complete pre-commissioning documentation according to workplace procedures 3.3 Identify, record and report problems or non-conformances to relevant personnel
4. Conduct test runs/trials	4.1 Conduct trials/test runs according to workplace procedures 4.2 Record performance data and process written reports according to workplace procedures
5. Evaluate results and identify modifications	5.1 Identify and record modifications and recommended improvements 5.2 Complete written documentation and communicate to relevant personnel according to workplace procedures

Foundation Skills

This section describes those language, literacy, numeracy and employment skills that are essential to performance but not explicit in the performance criteria.

SKILL	DESCRIPTION
Oral communication	Conveys information and requirements clearly, and listens carefully
Reading	Identifies and interprets relevant information from workplace procedures, documentation and regulations

Unit Mapping Information

Supersedes and is equivalent to RIISAM403D Commission/recommission plant.

Links

Companion Volume implementation guides is found on VETNet -

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

Assessment Requirements for RIISAM403E Commission/recommission plant

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Performance Evidence

The candidate must demonstrate the ability to complete the tasks outlined in the elements, performance criteria and foundation skills of this unit, including evidence of the ability to:

- commission/recommission plant on at least two occasions, 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
 - 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
 - communicating findings.

During the above, the candidate must:

- locate and apply relevant documentation, policies and procedures and confirm that the work activity is compliant
- implement the requirements, procedures and techniques for commissioning/recommissioning plant
- work effectively with others to commission/recommission plant in a way that meets all required outcomes
- communicate clearly and concisely with others to receive and clarify work instructions and to determine coordination requirements prior to commencing and during work activities.

Knowledge Evidence

The candidate must be able to demonstrate knowledge to complete the tasks outlined in the elements, performance criteria and foundation skills of this unit, including knowledge of:

- key policies, procedures and documentation required to commission/recommission plant, including:
 - hazard and risk identification and management
 - statutory compliance
 - work health and safety
 - environmental issues
 - policy management
 - equipment maintenance
- principles and techniques for:
 - problem solving, report writing and diagnostic/fault finding
 - identifying relevant hazards and emergencies
- techniques for coordinating and communicating job activities with others.

Assessment Conditions

Mandatory conditions for assessment of this unit are stipulated below. The assessment must:

- include access to:
 - personal protective equipment
 - equipment related to commissioning/recommissioning plant
 - relevant documentation
- be conducted in a safe environment; and,
- be assessed in the context of this sector's work environment; and,
- be assessed in compliance with relevant legislation/regulation and using policies, procedures and processes directly related to the industry sector for which it is being assessed; and,
- confirm consistent performance can be applied in a range of relevant workplace circumstances.

Where personal safety or environmental damage are limiting factors, assessment may occur in a simulated work 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.

Assessor requirements

Assessors must be able to clearly demonstrate current and relevant industry knowledge and experience to satisfy the mandatory regulatory standards as set out in the Standards for Registered Training Organisations (RTOs) 2015/Australian Quality Training Framework mandatory requirements for assessors current at the time of assessment and any relevant licensing and certification requirements. This includes:

- vocational competencies at least to the level being delivered and assessed

- current industry skills directly relevant to the training and assessment being provided
- current knowledge and skills in vocational training and learning that informs their training and assessment
- formal relevant qualifications in training and assessment
- having knowledge of and/or experience using the latest techniques and processes
- possessing the required level of RII training product knowledge
- having an understanding and knowledge of legislation and regulations relevant to the industry and to employment and workplaces
- demonstrating the performance evidence, and knowledge evidence outlined in this unit of competency, and
- the minimum years of current** work experience after competency has been obtained as specified below in an industry sector relevant to the outcomes of the unit.

It is also acceptable for the appropriately qualified assessor to work with an industry expert to conduct assessment together and for the industry expert to be involved in the assessment judgement. The industry expert must have current industry skills directly relevant to the training and assessment being provided. This means the industry subject matter expert must demonstrate skills and knowledge from the minimum years of current work experience after competency has been obtained as specified below, including time spent in roles related to the unit being assessed:

Industry sector	AQF indicator level***	Required assessor or industry subject matter expert experience
Drilling, Metalliferous Mining, Coal Mining, Extractive (Quarrying) and Civil Infrastructure	1	1 year
	2	2 years
Drilling, Coal Mining, Extractive (Quarrying), Metalliferous Mining and Civil Infrastructure	3-6	3 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.	

*Guidance on simulated environments has been stipulated in the Companion Volume Implementation Guide located on VETNet.

**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 a minimum number of site assessments as determined by the relevant industry sector, across various locations.

*** While a unit of competency does not have an AQF level, where a unit is being delivered outside of a qualification the first numeric character in the unit code should be considered as the AQF indicator level for assessment purposes.

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