



Australian Government

RIISAM204E Operate small plant and equipment

Release: 1

RIISAM204E Operate small plant and equipment

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 operate small plant and equipment in the resources and infrastructure industries.

It applies to those working in operational roles. They generally work under supervision to undertake a prescribed range of functions involving known routines and procedures and take responsibility for the quality of own work outcomes.

Licensing, legislative and certification requirements may apply to this unit and can vary between states, territories and industry sectors. Users must check requirements with relevant body before applying the unit.

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. Prepare for operating small plant and equipment	1.1 Obtain, interpret, and confirm work requirements 1.2 Access, interpret and apply documentation and procedures 1.3 Identify and address potential risks, hazards and environmental issues, and implement control measures according to workplace procedures 1.4 Select and wear personal protective equipment required for work activities 1.5 Select and check for faults in plant, tools and equipment, and confirm they are appropriate for the work activity 1.6 Obtain and interpret emergency procedures and be prepared for emergency situations

ELEMENT	PERFORMANCE CRITERIA
2. Conduct pre-operational checks	2.1 Select and use fuel and lubricants according to workplace procedures 2.2 Check and adjust fuel, oil, hydraulic fluid and water levels 2.3 Inspect, secure and maintain bolts, nuts, guards and attachment couplings 2.4 Check and adjust the function of controls and gauges 2.5 Conduct start up and shut down procedures according to workplace procedures
3. Use small plant and equipment	3.1 Identify hazards during work and establish appropriate risk management controls 3.2 Identify and apply operating techniques to achieve optimum output while maintaining specified tolerances 3.3 Operate plant and equipment to produce results within specified workplace tolerances 3.4 Store plant and equipment safely when not in immediate use
4. Carry out operator maintenance	4.1 Prepare machine for maintenance 4.2 Conduct inspection and check plant and equipment for serviceability, identify, and rectify and report any faults 4.3 Carry out scheduled maintenance tasks
5. Conduct housekeeping activities	5.1 Clear work area and dispose of materials 5.2 Clean and maintain condition of equipment, ensure suitability for use, and address and report issues 5.3 Complete written records and reports

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
Writing	Produces and completes written documents required for workplace procedures
Numeracy	Calculates resource requirements, including use of basic addition, subtraction, multiplication and division
Self-management	Monitors and minimises own exposure to worksite risks and hazards during activities

Unit Mapping Information

Supersedes and is equivalent to RIISAM204D Operate small plant and equipment.

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 RIISAM204E Operate small plant and equipment

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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:

- operate small plant and equipment on at least two different occasions, including:
 - conducting pre-operational checks
 - identifying and managing site hazards
 - identifying and using correct operating techniques to achieve optimum output while maintaining specified tolerances
 - correctly storing equipment
 - completing operator maintenance
 - clearing the work area.

During the above, the candidate must:

- locate and apply required documentation, policies and procedures and confirm that the work activity is compliant
- implement the requirements, procedures and techniques required to operate small plant and equipment
- work with others to undertake the operation of small plant and equipment
- communicate 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 operate small plant and equipment, including those related to:
 - work health and safety procedures
 - environmental issues

- emergency procedures
- complying with safety data sheets
- records and reports
- small plant and equipment types, characteristics, technical capabilities and limitations, including:
 - power sources
 - compaction equipment
 - concrete equipment
 - excavation equipment
 - maintenance equipment
 - water equipment
 - lighting equipment
 - lifting materials
 - key operating techniques
- material types, characteristics, technical capabilities and limitations, including:
 - water
 - bituminous mixes
 - timber
 - fuels and oils
 - power leads
- applications of small plant and equipment working with:
 - clay
 - silts
 - stone
 - gravel
 - mud
 - rock sand
 - topsoil
- key industry and site specific terminology.

Assessment Conditions

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

- include access to:
 - personal protective equipment
 - equipment required to operate small plant and equipment
 - 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

Industry sector	AQF indicator level***	Required assessor or industry subject matter expert experience
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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