



Australian Government

RIIARO303 Operate equipment in autonomous environments

Release: 2

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Modification History

Release	Comments
Release 2	This version first released with RII Resources and Infrastructure Industry Training Package Version 9.0. Minor changes to the two knowledge evidence items.
Release 1	This version first released with RII Resources and Infrastructure Industry Training Package Version 7.0.

Application

This unit describes the skills and knowledge required to operate equipment in autonomous environments in the resources and infrastructure industries, including preparing for and safely carrying out work activities using manual equipment in proximity to autonomous systems and components.

It applies to those working in site-based roles, including those working in the scope of water cart operator, grader operator and service crew roles. They generally work under minimal supervision to undertake a broad range of tasks, in proximity to ground based mobile or fixed autonomous and semiautonomous systems and components, using some discretion and judgement in selecting equipment, services or contingency measures.

This unit alone does not provide sufficient skill to undertake the associated manual mobile plant and/or equipment operations. To perform this activity safely, it is intended that users have successfully completed relevant training for the associated manual mobile plant and/or equipment operations.

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

Unit Sector

Coal mining

Metalliferous mining

Elements and Performance Criteria

ELEMENT	PERFORMANCE CRITERIA
<i>Elements describe the</i>	<i>Performance criteria describe the performance needed to demonstrate</i>

ELEMENT	PERFORMANCE CRITERIA
<i>essential outcomes.</i>	<i>achievement of the element.</i>
1. Plan and prepare to operate equipment in autonomous environments	1.1 Obtain, interpret, confirm and clarify work instructions 1.2 Identify and confirm autonomous systems and components in proximity to work activity 1.3 Access, interpret and apply documentation required to operate equipment in proximity to autonomous systems and components and confirm work activity is compliant 1.4 Identify and confirm own role and responsibility in autonomous operations value chain according to organisational requirements 1.5 Select and wear personal protective equipment according to site requirements 1.6 Select and obtain tools and equipment required to operate equipment in proximity to autonomous systems and components 1.7 Obtain permits and clearances according to job and site requirements 1.8 Identify potential risks and hazards, implement control measures within scope of own role, and escalate where required 1.9 Obtain and interpret emergency procedures and identify steps required to respond to emergencies
2. Carry out equipment operations in autonomous environments	2.1 Carry out pre-start and start-up equipment checks according to manufacturer specifications and site requirements 2.2 Check and confirm work area is in safe proximity to autonomous systems and components according to manufacturer specifications and site requirements 2.3 Enter work area according to autonomous system and component manufacturer specifications and site requirements 2.4 Identify requirements for, and implement personal protective zone according to manufacturer specifications and site requirements 2.5 Coordinate and communicate activities with others according to site requirements within scope of own role 2.6 Operate equipment in required proximity to autonomous systems and components according to manufacturer specifications and site requirements 2.7 Monitor risks and hazards, implement control measures within scope of own role, and escalate where required 2.8 Report on monitoring systems and alarms according to site requirements and respond within scope of own role, and escalate where required 2.9 Complete equipment operation according to job requirement 2.10 Exit work area according to autonomous system and component manufacturer specifications and site requirement 2.11 Carry out park-up and shut down procedures and secure equipment

ELEMENT	PERFORMANCE CRITERIA
	according to manufacturer specifications and site requirements
3. Conduct housekeeping activities	3.1 Complete records and documentation according to site requirements 3.2 Report potential risks and hazards according to site requirements and escalate where required

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	• Uses listening and questioning to clarify and confirm understanding
Self-management	• Monitors and minimises own exposure to worksite risks and hazards during work activities
Technology	• Uses digital technologies and applications to access, organise and share information

Unit Mapping Information

No equivalent unit. New unit.

Links

Companion Volume implementation guides is found on VETNet -

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