



Australian Government

RIIARO401 Supervise autonomous operations

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 supervise autonomous operations in the resources and infrastructure industries, including monitoring interactions between personnel, manual equipment, autonomous systems and components and implementing controls.

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

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 essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
1. Plan and prepare to supervise autonomous operations	1.1 Obtain, interpret, confirm and clarify work instructions 1.2 Identify and confirm autonomous systems and components involved in work activity 1.3 Access, interpret and apply documentation required to supervise

ELEMENT	PERFORMANCE CRITERIA
	autonomous operations 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 for work activity 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. Prepare personnel to execute autonomous operations	2.1 Check and confirm available resources meet job and site requirements 2.2 Communicate and clarify instructions with involved personnel according to job requirements 2.3 Identify training needs for personnel involved in work activity and make arrangements to meet identified needs
3. Oversee autonomous operations	3.1 Monitor entry to work area according to autonomous system and component manufacturer specifications, site requirements and within scope of own role 3.2 Monitor risks and hazards, implement control measures within scope of own role, and escalate where required 3.3 Act or report on monitoring systems and alarms according to site requirements 3.4 Supervise work activity according to job and site requirements and within scope of own role 3.5 Monitor and control interactions between personnel, manual equipment, and autonomous system and components according to manufacturer specifications, job, scope of own role and site requirements 3.6 Implement controls for autonomous operations according to manufacturer specifications, job, scope of role, and site requirements 3.7 Confirm work plan is completed according to manufacturer specifications and job and site requirements 3.8 Monitor exit of work area according to autonomous system and component manufacturer specifications and site requirements
4. Conduct housekeeping activities	4.1 Complete records and documentation according to site requirements 4.2 Report potential risks and hazards according to site requirements and escalate where required 4.3 Identify opportunities to optimise safety, efficiency, effectiveness and change management of autonomous operations, and escalate

ELEMENT	PERFORMANCE CRITERIA
	where required, within scope of own role

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
Technology	Uses digital technologies and applications to access, organise and share information
Writing	Completes workplace documentation using sector-specific vocabulary, grammatical structures and conventions

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>