



Australian Government

RIIARO304 Coordinate and interact with autonomous systems

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 coordinate and interact with autonomous systems and components in the resources and infrastructure industries, including positioning and carrying out work activity with autonomous systems.

It applies to those working in site-based roles, including those working in the scope of hydraulic rope shovel, hydraulic excavator, dozer or loader operator roles. They generally work under minimal supervision to undertake a broad range of tasks in varied work contexts, 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 essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>

ELEMENT	PERFORMANCE CRITERIA
1. Plan and prepare to coordinate and interact with autonomous systems	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 coordinate and interact with 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 equipment and components required to coordinate and interact with 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 1.10 Coordinate and communicate planned activities with other personnel in work area according to site requirements
2. Carry out coordination and interaction with autonomous systems	2.1 Enter work area according to autonomous system and component manufacturer specifications and site requirements 2.2 Identify requirements for, and implement personal protective zone according to manufacturer specifications and site requirements 2.3 Monitor risks and hazards, implement control measures within scope of own role, and escalate where required 2.4 Report on monitoring systems and alarms according to site requirements and respond within scope of own role, and escalate where required 2.5 Coordinate activities within scope of own role and communicate with others 2.6 Coordinate the positioning of equipment and autonomous systems within scope of own role according to manufacturer specifications and job and site requirements 2.7 Monitor and confirm the safe, effective and efficient interaction with the autonomous system within according to manufacturer specifications, job, scope of own role and site requirements 2.8 Complete designated work activity in coordination with autonomous system and components according to manufacturer specifications, job, scope of own role and site requirements 2.9 Exit work area according to autonomous system and component manufacturer specifications and site requirements

ELEMENT	PERFORMANCE CRITERIA
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 3.3 Identify autonomous system malfunctions and failures, address within scope of own role and report according to site requirements 3.4 Identify opportunities to optimise safety, efficiency and effectiveness of autonomous operations within scope of own role 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>