



Australian Government

RIISAM302D Service and handover plant and machines

Release: 2

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Modification History

Release	Comment
1	This unit replaces RIISAM302A Service and handover plant and machines
2	Required frequency and volume of evidence amended in Performance evidence. Substantial amendments made in Assessment Conditions field, including: references to Industry Sectors, assessor and subject matter expert experience requirements, how assessment should be conducted and what it should confirm.

Application

This unit describes a participant's skills and knowledge required to service and handover plant and machines in Coal and Metalliferous mining and Extractive.

This unit is appropriate for those working in operational roles.

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

Unit Sector

Coal mining

Extractive

Metalliferous mining

Elements and Performance Criteria

1. Plan and prepare for service and handover plant and machines	1.1 Access, interpret and apply all service and maintenance documentation and ensure the work activity is compliant 1.2 Obtain, read, interpret, clarify and confirm work requirements 1.3 Identify and address potential risks, hazards and environmental issues, and implement control measures 1.4 Select and wear appropriate personal protective equipment for the work activity 1.5 Obtain permits required to carry out work from authorised personnel 1.6 Identify and obtain replacement parts and service tools
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	1.7 Inspect working area to determine appropriate path of movement for loads and equipment/vehicles 1.8 Maintain cleanliness of the servicing area
2. Assess and secure plant/machine	2.1 Conduct external checks of plant/machine 2.2 Secure plant/machine and inspect attachments for defects 2.3 Carry out pre-operational and post start-up equipment checks 2.4 Report defects and damage
3. Service, maintain and repair plant/machine	3.1 Communicate and coordinate activities with others throughout the work activity 3.2 Operate service/maintenance equipment 3.3 Conduct servicing or maintenance of plant/machine 3.4 Apply procedures for the disposal of used oil and lubricant 3.5 Maintain servicing schedule and/or records
4. Test plant/machine operational functions under load	4.1 Ensure safety of personnel and avoidance of damage to plant/machine and environment while testing the plant/machine under load 4.2 Shift material using appropriate equipment 4.3 Assess weight of test load in compliance with equipment load plate specifications 4.4 Apply control levers to ensure safe and effective operation of equipment 4.5 Maintain speed of machine to safe operating and site limits 4.6 Place test load to ensure stability of materials 4.7 Identify and respond to hazardous and emergency situations
5. Shutdown plant/machine and secure site	5.1 Park plant/machine to avoid machine and site hazards 5.2 Conduct shut-down and isolate vehicle 5.3 Return plant/machine to service 5.4 Complete post-operational checks and handover documentation

Foundation Skills

Foundation skills essential to performance are explicit in the performance criteria of this unit. Further information is available in the Resources and Infrastructure Industry Training Package Companion Volume.

Unit Mapping Information

RIISAM302A Service and handover plant and machines

Links

Companion Volume implementation guides are found in VETNet -

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

Assessment Requirements for RIISAM302D Service and handover plant and machines

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Performance Evidence

Evidence is required to be collected that demonstrates a candidate's competency in this unit. Evidence must be relevant to the roles within this sector's work operations and satisfy all of the requirements of the performance criteria of this unit and include evidence that the candidate:

- locates and applies relevant documentation, policies and procedures
- implements the requirements, procedures and techniques for the safe, effective and efficient servicing and handing over plant and machines including:
 - organisation and site requirements and procedures
 - attachment securing procedures
 - hazard identification procedures and risk control
 - appropriate equipment
 - lever controls safely and effectively
 - and securing plant and machinery
 - operational functions under load
 - shut down of equipment and securing the site
- works effectively with others to service and handover plant and machines that meets all of the required outcomes including:
 - organising work activities to meet all task requirements
 - communicating clearly and concisely with others to receive and clarify work instructions
 - communicating clearly and concisely with others to resolve coordination requirements prior to commencing and during work activities

- demonstrates completion of servicing and handing over plant and machines that safely, effectively and efficiently meets all of the required outcomes on more than one (1) occasion including:
- planning and preparing
- obtaining the required permits
- obtaining replacement parts and service tools
 - conducting external checks of plant/machine
 - securing plant/machine
 - inspecting attachments for defects
 - carrying out equipment checks
 - conducting servicing or maintenance of plant/machine
 - post-maintenance testing of plant and machines
 - shut-down and isolate vehicle
 - completing post-operational checks and handover documentation

Knowledge Evidence

The candidate must demonstrate knowledge in servicing and handover plant and machines through:

- accessing, interpreting and applying organisational and site requirements and procedures for:
 - work health and safety
 - environmental issues
 - obtaining permits
 - site communication signals
 - reporting defects
 - safe operating speed limits
 - completion of service/maintenance schedule
 - documentation and reporting
- interpreting manufacturer's or equivalent specifications for conduct of external checks
- interpreting manufacturer's specification for securing attachments
- obtaining and applying manufacturer's specifications/operational manual requirements for pre-operational and post start-up checks
- identifying and applying safe operating limits of hydraulic shovel/excavator
- identifying and applying test load parameters
- applying requirements for stability of materials
- applying manufacturer's specifications for shutdown and isolation of hydraulic shovel/excavator

Assessment Conditions

- An assessor of this unit must satisfy the requirements of the NVR/AQTF or their successors; and Industry regulations for certification and licensing; and,
- this unit is best assessed in the context of this sector's work environment;
- where personal safety or environmental damage are limiting factors, assessment may occur in a simulated 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; and,
- this unit must be assessed in compliance with relevant legislation/regulation and using policies, procedures, processes and operational manuals directly related to the industry sector for which it is being assessed; and,
- assessment may be conducted in conjunction with the assessment of other Units of Competency; and,
- assessment must confirm consistent performance can be applied in a range of relevant workplace circumstances; and,
- assessors must demonstrate the performance evidence, and knowledge evidence as outlined in this Unit of Competency, and through the minimum years of current* work experience specified below in an Industry sector relevant to the outcomes of the unit; or,
- where the assessor does not meet experience requirements a co-assessment or partnership arrangement must exist between the qualified assessor and an Industry subject matter expert. The Industry subject matter expert should hold the unit being assessed (or an equivalent unit) and/or demonstrate equivalence of skills and knowledge at the unit level. An Industry technical expert must also demonstrate skills and knowledge from the minimum years of current work experience specified below in the Industry sector, including time spent in roles related to the unit being assessed; and,
- assessor and Industry subject matter expert requirements differ depending on the Australian Qualifications Framework Level (AQF) of the qualification being assessed and/or Industry Sector as follows:

Industry sector	AQF** Level	Required assessor or Industry subject matter expert experience
Drilling, Metalliferous Mining, Coal Mining, Extractive (Quarrying) and Civil Construction	1	1 Year
	2	2 Years
Drilling, Coal Mining and Extractive (Quarrying)	3-6	3 Years
Metalliferous Mining and Civil Construction	3-6	5 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.
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*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 frequent site assessments across various locations.

**Where a unit is being delivered outside of a Qualification the first numeric character in the Unit code should be considered to indicate the AQF level

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