



Australian Government

AURRGA002 Use cranes, gantries and forklifts to launch and recover vessels

Release: 1

AURRGA002 Use cranes, gantries and forklifts to launch and recover vessels

Modification History

Release	Comment
Release 1	New unit of competency.

Application

This unit describes the performance outcomes required to use a crane, gantry or forklift to launch and recover a vessel. It involves checking launch site conditions, conducting vessel and launching equipment safety inspections, launching the vessel into the water, and recovering the vessel from the water.

It applies to those working in the marine service and repair industry. The vessels are those up to 10 metres in length with a maximum beam of 2.5 metres.

Licensing, legislative, regulatory or certification requirements may apply to this unit in some jurisdictions. Users are advised to check with the relevant regulatory authority.

Competency Field

Marine

Unit Sector

Elements and Performance Criteria

Elements	Performance Criteria
Elements describe the essential outcomes.	Performance criteria describe the performance needed to demonstrate achievement of the element. Where bold and italicised text is used, further information is detailed in the range of conditions section.
1. Prepare to use crane, gantry or forklift to launch vessel	1.1 Job requirements are determined from workplace instructions 1.2 Launch and recovery equipment is selected according to job requirements, and checked for safe operation according to manufacturer specifications and workplace procedures 1.3 Hazards associated with the work are identified and risks are

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	managed
2. Conduct pre-launch safety inspection	2.1 Weather, tides and launch site are checked for safe launch conditions 2.2 Vessel safety equipment is audited 2.3 Vessel systems and components are checked for seaworthiness, and compliance with manufacturer specifications and applicable state and territory regulations 2.4 Systems and components that fail the vessel check are recorded, and supervisor and owner are notified
3. Launch vessel	3.1 Slings and lifting equipment are attached and positioned to hull according to manufacturer and workplace procedures and safety requirements 3.2 Crane, gantry or forklift is operated and manoeuvred to place vessel in suitable depth of water at launch site, according to manufacturer and workplace procedures and safety requirements, and without causing damage to vessel or the environment 3.3 Slings and lifting equipment are removed from vessel according to manufacturer and workplace procedures and safety requirements 3.4 Vessel is moved from launch site to safe area in water according to state and territory marine safety laws 3.5 Crane, gantry or forklift is moved from launch site according to manufacturer and workplace procedures and safety requirements
4. Recover vessel	4.1 Crane, gantry or forklift is positioned at lift point ensuring suitable depth of water is present according to manufacturer and workplace procedures and safety requirements 4.2 Vessel is manoeuvred into recovery area according to state and territory marine safety laws, and aligned with lifting equipment 4.3 Slings and lifting equipment are attached and positioned to hull according to manufacturer and workplace procedures and safety requirements 4.4 Crane, gantry or forklift is operated and manoeuvred to remove vessel from water according to manufacturer and workplace procedures and safety requirements, and without causing damage to vessel, lifting equipment or physical surrounds 4.5 Vessel is secured in storage or transport location and slings and lifting equipment are removed from vessel according to manufacturer and workplace procedures and safety requirements

Foundation Skills

This section describes those language, literacy, numeracy and employment skills that are essential to performance and are not explicit in the performance criteria.

Skills	Description
Learning skills to:	locate appropriate sources of information efficiently.
Reading skills to:	- interpret safe operating procedures for vessel launch and recovery equipment from workplace and manufacturer literature - interpret weather and tide information.
Writing skills to:	legibly and accurately fill out workplace documentation when reporting inspection findings.
Oral communication skills to:	- clarify instructions - report safety inspection findings.
Numeracy skills to:	calculate tare weight, gross vehicle mass, and aggregate trailer mass and compare with manufacturer specifications.
Planning and organising skills to:	plan own work requirements and prioritise actions to achieve required outcomes and ensure tasks are completed within workplace timeframes.
Problem solving skills to:	assess different launching and recovery situations and determine safest method of work.

Range of Conditions

This section specifies work environments and conditions that may affect performance.

Essential operating conditions that may be present (depending on the work situation, needs of the candidate, accessibility of the item, and local industry and regional contexts) are included.

Bold italicised wording, if used in the performance criteria, is detailed below.

<i>Safety requirements</i> must include:	- work health and safety (WHS) and occupational health and safety (OHS) requirements, including procedures for: - determining safe lifting limits of cranes, gantries and forklifts - positioning slings and lifting equipment.
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Unit Mapping Information

Equivalent to AURRGA3002 Launch and recover a vessel from crane, gantry and forklift

Links

Companion Volume implementation guides are found in VETNet -

<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=b4278d82-d487-4070-a8c4-78045ec695b1>

Assessment Requirements for AURRGA002 Use cranes, gantries and forklifts to launch and recover vessels

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Performance Evidence

Before competency can be determined, individuals must demonstrate they can perform the following according to the standards defined in this unit's elements, performance criteria, range of conditions and foundation skills:

- launch and recover two vessels of up to 10 metres in length with a maximum beam of 2.5 metres, using a crane, gantry or forklift.

Knowledge Evidence

Individuals must be able to demonstrate knowledge of:

- work health and safety (WHS) and occupational health and safety (OHS) requirements relating to launching and recovering a vessel using a crane, gantry or forklift, including procedures for:
 - determining safe lifting limits of cranes, gantries and forklifts
 - positioning slings and lifting equipment
- pre-launch inspection procedures, including inspection procedures for:
 - vessel safety equipment, including:
 - life jackets
 - anchors
 - bailer or fire bucket and lanyard
 - bilge pump
 - compass
 - distress flares
 - emergency position indicating radio beacon (EPIRB)
 - fire extinguisher
 - map
 - marine radio

- paddles and oars
- safety and capacity labels
- sound signals
- drinking water
- waterproof torch
- hulls and fittings
- cranes, gantries and forklifts
- state or territory legislation, regulations, marine safety laws, standards and codes of practice relating to marine launch sites
- vessel launching and recovery procedures, including:
 - procedures for determining water depth required for vessel flotation
 - type, application and operation of cranes, gantries and forklifts, including:
 - lifting sling equipment and vessel attachment points
 - techniques for manoeuvring a crane, gantry, forklift and attached vessel.

Assessment Conditions

Assessors must satisfy NVR/AQTF assessor requirements.

Competency is to be assessed in the workplace or a simulated environment that accurately reflects performance in a real workplace setting.

Assessment must include direct observation of tasks.

Where assessment of competency includes third-party evidence, individuals must provide evidence that links them to the vessels that they have launched and recovered using a crane, gantry or forklift, e.g. repair orders.

Assessors must verify performance evidence through questioning on skills and knowledge to ensure correct interpretation and application.

The following resources must be made available:

- launch site at an estuary or seaway
- two different vessels as specified in the performance evidence
- crane, gantry or forklift appropriate for launching and recovering vessels
- state and territory marine safety laws
- tools, equipment and materials appropriate for inspecting, launching and recovering vessels using a crane, gantry or forklift.

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