



Australian Government

MSFCP3003 Maintain and repair barrels

Release: 1

MSFCP3003 Maintain and repair barrels

Modification History

Release 1. Changes to code, application, elements, performance criteria. Foundation skills added. Range of conditions removed. Assessment requirements changed. Previous unit was listed in an AQF2 qualification. This unit aligns with AQF3 and higher qualifications.

Application

This unit describes the skills and knowledge required to inspect, disassemble, clean, repair and restore barrels. Workers with this competency follow established procedures using discretion, judgement and problem solving.

No licensing or certification requirements exist at the time of publication. Relevant legislation, industry standards and codes of practice within Australia must be applied.

Unit Sector

Coopering

Elements and Performance Criteria

Elements	Performance Criteria
Elements describe the essential outcomes.	Performance criteria describe the performance needed to demonstrate achievement of the element.
1. Identify and confirm maintenance requirements	1.1 Verify and comply with work health and safety (WHS) legislative and organisational requirements 1.2 Review work order, and confirm and clarify with appropriate personnel 1.3 Disassemble barrel as necessary to allow inspection 1.4 Clean barrel of any materials which may inhibit inspection 1.5 Test, inspect and evaluate barrel for faults 1.6 Identify and confirm further maintenance and repair requirements for barrel
2. Prepare for maintenance and repair	2.1 Analyse maintenance and repair requirements, and determine procedures for checking quality at each stage of the process 2.2 Select tools, equipment, materials and components required for maintenance and repair, and prepare them for use 2.3 Complete disassembly required for maintenance and repair

Elements	Performance Criteria
Elements describe the essential outcomes.	Performance criteria describe the performance needed to demonstrate achievement of the element.
	2.4 Clean barrel and components internally and externally
3. Complete maintenance and repair activities	3.1 Replace faulty parts and components 3.2 Repair leakage faults using appropriate techniques and materials 3.3 Re-assemble and re-fire barrel 3.4 Test and inspect barrel to confirm the effectiveness of repairs 3.5 Select and apply cleaning and sterilisation processes
4. Clean work area and maintain equipment	4.1 Tag and report faulty and defective equipment in accordance with workplace procedures 4.2 Remove waste and scrap following workplace procedures 4.3 Clean tools and equipment, check they are in serviceable condition, and store them appropriately in accordance with workplace procedures 4.4 Clean equipment and work area in accordance with workplace procedures 4.5 Complete records and reports to workplace requirements

Foundation Skills

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

- Reading skills to comprehend work instructions
- Writing skills to complete work records
- Oral communication skills to clarify work instructions
- Numeracy skills to calculate lengths, volumes, angles and material quantities

Other foundation skills essential to performance are explicit in the performance criteria of this unit.

Unit Mapping Information

Release 1. Supersedes and equivalent to MSFCP2004 Maintain and repair barrels

Links

Companion Volume implementation guides are found in VETNet –

<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=0601ab95-583a-4e93-b2d4-cfb27b03ed73>

Assessment Requirements for MSFCP3003 Maintain and repair barrels

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Performance Evidence

There must be evidence the candidate has completed the tasks outlined in the elements and performance criteria of this unit, and demonstrated the ability to:

- clean by hand and machine methods, and repair at least 2 barrels (or equivalent cooperage product), including:
 - at least 1 leakage fault
 - at least 1 faulty stave
 - at least one faulty head or head joint.

Knowledge Evidence

There must be evidence the candidate has knowledge of:

- ways to address common material faults in barrels, including at least 5 of the following:
 - knots
 - sapwood
 - splits and shakes
 - rot and decay
 - insect infestation
 - mineral streak or brown stripe
 - broken chime
 - split staves
 - acetic or volatile barrel
 - mouldy barrel
 - water contamination
- ways to address common wear, tear and deterioration faults in barrels, including at least 2 of the following:
 - handling damage
 - discolouration
 - broken staves
 - buckled heads
 - burst heads

- build-up of fermentation products
- contamination
- standard hot water leakage testing
- leakage repair methods:
 - plugging
 - caulking
 - re-machining
- function of hand and power tools commonly used for barrel maintenance and repair
- personal protective equipment (PPE) required for barrel maintenance and repair.
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Assessment Conditions

Skills must have been demonstrated in the workplace or in a simulated environment that reflects workplace conditions and contingencies. The following conditions must be met for this unit:

- use of suitable facilities, equipment and resources, including:
 - all materials and tools required for performance evidence
 - PPE
 - workplace procedures.

Assessors must satisfy the NVR/AQTF mandatory competency requirements for assessors.

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