



**Australian Government**

# **AURPTA007 Service and repair post boring systems**

**Release: 1**

# AURPTA007 Service and repair post boring systems

## Modification History

| Release   | Comment                 |
|-----------|-------------------------|
| Release 1 | New unit of competency. |

## Application

This unit describes the performance outcomes required to service and repair faults in the post boring systems of outdoor power equipment according to manufacturer specifications. It involves preparing for the task, determining the service and repair requirements, carrying out the service and repair, performing post-repair testing, and completing workplace processes and documentation.

It applies to those working in the outdoor power equipment service and repair industry. The post boring systems may be stand-alone or chainsaw attached, and can be petrol powered or electric powered.

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

## Competency Field

Outdoor Power Equipment

## Unit Sector

Technical

## 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 service and repair post boring system | 1.1 Job requirements are determined from workplace instructions<br>1.2 <b><i>Service and repair procedures</i></b> and information are sourced and interpreted                                              |

| <b>Elements</b><br>Elements describe the essential outcomes.       | <b>Performance Criteria</b><br>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.                                                                                                                                                                                                                                                   |
|--------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                    | 1.3 Hazards associated with the work are identified and risks are managed<br>1.4 Tools, equipment and materials are selected and checked for serviceability                                                                                                                                                                                                                                                                                                                                  |
| 2. Determine service and repair requirements of post boring system | 2.1 System is inspected and tested according to manufacturer specifications, workplace procedures, and <b>safety requirements</b><br>2.2 Faults are identified from inspection and causes of faults are determined<br>2.3 Inspection findings and test results are reported according to workplace procedures, and include recommendations for necessary service, repair or adjustment<br>2.4 Authorisation to proceed with service and repair is obtained according to workplace procedures |
| 3. Carry out service and repair activities                         | 3.1 Service and repair options are analysed and those most appropriate to the circumstances are selected<br>3.2 Tools, equipment and materials are selected and checked<br>3.3 Components are removed and inspected for serviceability according to manufacturer specifications, workplace procedures, and safety requirements<br>3.4 Reusable, repaired and replacement components are fitted and adjusted according to manufacturer specifications and workplace procedures                |
| 4. Check post boring system for normal operation                   | 4.1 System is operated and compared to manufacturer specifications according to workplace procedures and safety requirements<br>4.2 Adjustments are made as required and post boring system is re-tested                                                                                                                                                                                                                                                                                     |
| 5. Complete work processes                                         | 5.1 Final inspection is made to ensure work is to workplace expectations and equipment is presented ready for use, including protective guards, cowlings and safety features<br>5.2 Work area is cleaned, waste and non-recyclable material are disposed of and recyclable material is collected<br>5.3 Tools and equipment are checked and stored according to workplace procedures<br>5.4 Workplace documentation is processed according to workplace procedures                           |

## 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:                | <ul style="list-style-type: none"> <li>locate appropriate sources of information efficiently.</li> </ul>                                                                                                                                               |
| Reading skills to:                 | <ul style="list-style-type: none"> <li>interpret information from manufacturer and workshop literature when seeking post boring system specifications and procedures.</li> </ul>                                                                       |
| Writing skills to:                 | <ul style="list-style-type: none"> <li>legibly and accurately fill out workplace documentation when reporting inspection findings, making repair recommendations, and recording parts and material used.</li> </ul>                                    |
| Numeracy skills to:                | <ul style="list-style-type: none"> <li>measure post boring system components and use basic mathematical operations, including addition and subtraction, to calculate distances, tolerances and deviations from manufacturer specifications.</li> </ul> |
| Planning and organising skills to: | <ul style="list-style-type: none"> <li>plan own work requirements and prioritise actions to achieve required outcomes and ensure tasks are completed within workplace timeframes.</li> </ul>                                                           |

## 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.

|                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|-----------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b><i>Service and repair procedures</i></b> must include: | <ul style="list-style-type: none"> <li>inspecting, repairing and replacing components</li> <li>testing repaired unit, including overload protection.</li> </ul>                                                                                                                                                                                                                                                                   |
| <b><i>Safety requirements</i></b> must include:           | <ul style="list-style-type: none"> <li>work health and safety (WHS) and occupational health and safety (OHS) requirements, including procedures for:             <ul style="list-style-type: none"> <li>safely starting and checking operation, adjustment and alignment of post boring system</li> <li>safely operating overload system</li> <li>selecting and using personal protective equipment (PPE).</li> </ul> </li> </ul> |

## Unit Mapping Information

Equivalent to AURPTA2007 Service and repair post-boring systems

## 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 AURPTA007 Service and repair post boring systems

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| Release 1 | New unit of competency. |

## 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:

- service and repair two different post boring systems.

## Knowledge Evidence

Individuals must be able to demonstrate knowledge of:

- work health and safety (WHS) and occupational health and safety (OHS) requirements relating to servicing and repairing post boring systems, including procedures for:
  - safely starting and checking operation, adjustment and alignment of post boring system
  - safely operating overload system
  - selecting and using personal protective equipment (PPE)
- application, purpose and operation of stand-alone or chainsaw attached post boring systems, including:
  - petrol powered
  - electric powered
- augers and drill bit types and their application
- service and repair procedures for post boring systems, including:
  - drive system gearbox
  - overload devices
  - protective guards and cowlings
  - handle assembly
  - lubrication systems
  - chuck assembly

- augers and drill bits
- clutch drum assembly
- reversing system
- post-repair testing procedures, including operating system through full operating range.

## 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 post boring systems that they have serviced and repaired, 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:

- outdoor power equipment repair workplace or simulated workplace
- workplace instructions
- manufacturer specifications for post boring systems
- area and equipment, including PPE, required to safely test post boring systems
- two different post boring systems requiring service and repair
- tools, equipment and materials appropriate for inspecting, servicing and repairing post boring systems.

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