



**Australian Government**

# **AHCARB206 Operate and maintain stump grinding machines**

**Release: 1**

# AHCARB206 Operate and maintain stump grinding machines

## Modification History

Release	TP Version	Comment
1	AHCv1.0	Initial release

## Application

This unit of competency describes the skills and knowledge required to operate motorised stump grinding machines to remove tree stumps from the ground.

This unit applies to individuals who undertake defined activities with specialised tools and methods, work in a structured context, apply knowledge and skills to demonstrate autonomy and limited judgement, and provide solutions to a limited range of predictable problems. Work is implemented with low risk work procedures, in accordance with manufacturers recommendations and to comply with Safe Work Method Statement documentation.

Licensing, legislative, regulatory, or certification requirements apply to this unit in some states and territories at the time of publication, and may differ according to jurisdiction. Specific determination should be sought through the relevant State or Territory. Works involving this unit of competency may be subject to local tree protection and preservation laws, and the relevant content of applicable Australian Standards

## Pre-requisite Unit

AHCARB210 Work effectively in the arboriculture industry

HLTAID003 Provide first aid

## Unit Sector

Arboriculture (ARB)

## Elements and Performance Criteria

Element	Performance criteria
Elements describe the essential outcomes.	Performance criteria describe the performance needed to demonstrate achievement of the element.
1. Prepare for stump removal operations	1.1 Determine site location and details and clarify with supervisor 1.2 Determine the depth below ground of stump grinding works 1.3 Determine and confirm location and depth of

Element	Performance criteria
	above-and-below-ground services 1.4 Unload stump grinder machine 1.5 Undertake a site-specific risk assessment by identifying work health and safety hazards and assessing risk
2. Carry out pre-operational and safety checks	2.1 Check maintenance log is complete and up to date 2.2 Check belts are appropriately tensioned and in good order 2.3 Check teeth are sharp 2.4 Check no teeth are missing or loose 2.5 Check tyre pressure is correct or tracks are appropriately tensioned 2.6 Check levels of oils and fluids 2.7 Check hoses 2.8 Check brakes are operational 2.9 Check cutter head rotates freely and is not obstructed
3. Check stump grinder safety features	3.1 Check guards for belt, power take-off (PTO) and grinder head are in place 3.2 Check kill switch clearly identifiable and working 3.3 Check that dead-man is working if fitted 3.4 Check debris curtain present and in good order 3.5 Check dust suppression system is working if fitted
4. Complete preparations for work	4.1 Select and use appropriate personal protective equipment 4.2 Confirm first aid and emergency personnel, equipment and procedures 4.3 Expose stump surrounds manually and check for and remove foreign bodies 4.4 Moisten surrounds as required 4.5 Record and implement work health, safety, site, environmental and traffic control measures
5. Position stump grinder	5.1 Determine exclusion zone for work operations 5.2 Isolate exclusion zone with barriers and signs 5.3 Position machine level within recommended ranges to avoid rollover 5.4 Avoid holes with machine wheels 5.5 Position machine to minimise impact from flying debris 5.6 Position operator in low risk position 5.7 Position operator to provide a clear view of the stump 5.8 Locate safety screens as required
6. Undertake removal	6.1 Communicate with work team during operations using voice,

Element	Performance criteria
operations	<p>hand and whistle signals</p> <p>6.1 Confirm work zone cleared prior to starting cutter head</p> <p>6.3 Plan to complete a series of grinds across the stump</p> <p>6.4 Start cutter head</p> <p>6.5 Stop work if exclusion zone is breached and disengage cutter head if required</p> <p>6.6 Position cutter head over stump</p> <p>6.7 Engage cutter head into stump surface</p> <p>6.8 Maintain engine speed in revolutions-per-minute (RPM)</p> <p>6.9 Ensure grinding process is accurate, smooth and ergonomic</p> <p>6.10 Grind stump to recommended depth of cut on each cutting pass</p> <p>6.11 Ensure the cut size of each pass is not excessively deep causing the machine to labour excessively or to stall</p> <p>6.12 Grind stump to predetermined spread and depth</p> <p>6.13 Operate equipment without damaging underground services and surrounding areas</p>
7. Remove grindings	<p>7.1 Reposition machine away from ground stump</p> <p>7.2 Disengage cutter head</p> <p>7.3 Wait and remain clear of cutter head until cutter head stops moving</p> <p>7.4 Remove build-up of grindings</p>
8. Perform ongoing grinding operations	<p>8.1 Make check in calls at prearranged times</p> <p>8.2 Inspect grinder as required between stumps and when refuelling</p> <p>8.3 Shutdown immediately if abnormal vibration or noise develops</p> <p>8.4 Stop the engine before refuelling and allow engine to cool as required</p> <p>8.5 Follow Safe Work Method Statement instructions for refuelling</p> <p>8.6 Replace and secure fuel cap before restarting</p> <p>8.7 Disengage cutter head and ensure a complete stop before moving to a new stump</p>
9. Complete stump removal operation	<p>9.1 Back-fill stump hole to original ground level</p> <p>9.2 Maintain clean and safe work area throughout work and upon completion</p> <p>9.3 Collect waste material and dispose of or recycle in a manner causing minimal environmental damage</p> <p>9.4 Clean, maintain and store tools and equipment</p> <p>9.5 Perform basic maintenance, including sharpening grinder and replacing teeth as required</p>

Element	Performance criteria
	9.6 Load grinder in accordance with Safe Work Method Statement 9.7 Secure grinder for transport 9.8 Update records of operator usage in log record 9.9 Update records of maintenance and replacement items

## Foundation Skills

Foundation Skills essential to performance are explicit in the performance criteria of this unit of competency.

## Range of Conditions

## Unit Mapping Information

This unit is not equivalent to AHCARB206A Undertake stump removal.

## Links

Companion Volume implementation guides are found in VETNet -

<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=c6399549-9c62-4a5e-bf1a-524b2322cf72>