

Modification history

Release	Comments
Release 2	This version released with AHC Agriculture, Horticulture, Conservation and Land Management Training Package Version 4.0.
Release 1	This version released with AHC Agriculture, Horticulture, Conservation and Land Management Training Package Version 1.0.

AHCARB206	Operate and maintain stump grinding machines
Application	<p>This unit of competency describes the skills and knowledge required to operate motorised stump grinding machines to safely remove tree stumps from the ground.</p> <p>The unit applies to individuals working in a broad range of job contexts who undertake defined routine activities under supervision. They exercise limited autonomy within established and well known parameters, providing solutions to a limited range of predictable problems.</p> <p>No occupational licensing, legislative or certification requirements are known to apply to this unit at the time of publication.</p>
Prerequisite Unit	Nil
Unit Sector	Arboriculture (ARB)

Elements	Performance Criteria
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
1.Prepare for stump removal operations	1.1 Confirm work instructions and stumps to be removed with supervisor 1.2 Assess the size and scale of stump grinding works 1.3 Identify and confirm location and depth of above-and-below-ground services with supervisor 1.4 Undertake a site-specific Job Safety Analysis (JSA) and record and implement control measures 1.5 Confirm availability of first aid and emergency personnel, equipment and procedures 1.6 Unload stump grinder from transport vehicle according to workplace and safety procedures
2.Carry out stump grinder pre-operational and safety checks	2.1 Check maintenance log for outstanding performance issues and report incomplete maintenance to supervisor 2.2 Conduct pre-start checks on stump grinder according to manufacturer instructions 2.3 Ensure fluid levels are filled according to manufacturer specifications and environmental procedures 2.4 Check safety guards are secure and in place 2.5 Check safety switches are functioning correctly 2.6 Check debris curtain and dust suppression system is clear and in working order according to manufacturer instructions
4.Complete preparations for work	4.1 Select, check and use personal protective equipment 4.2 Assess stump and surrounds for impediments to grinding operations 4.3 Ensure soil conditions support grinding operations and rectify according to manufacturer and operating instructions 4.4 Implement work health, safety, site, environmental and traffic control measures

Elements	Performance Criteria
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
5. Operate stump grinder	5.1 Plan the grinding operation and position grinder according to site conditions and operators instructions 5.2 Implement stump grinder start up procedure 5.3 Operate stump grinder to grind stump and remove waste according to manufacturer and operators instructions 5.4 Monitor cutting operation and adjust cutting rate and depth according to manufacturer and supervisor instructions 5.5 Undertake corrective action when stump grinder performance or safe operation has been compromised 5.6 Implement shut down procedures following stump removal
6. Complete stump grinding operations	6.1 Dispose of waste material according to work instructions and environmental procedures 6.2 Clean and maintain stump grinder and equipment according to workplace and biosecurity procedures 6.3 Perform operator maintenance according to manufacturer instructions 6.4 Report and record stump grinder usage, maintenance and repair requirements according to repairs and maintenance procedures 6.5 Load and secure stump grinder onto transport vehicle according to workplace and safety procedures, and regulatory requirements 6.6 Maintain records and report stump grinding outcomes according to workplace procedures

Foundation Skills	
<i>This section describes those language, literacy, numeracy and employment skills that are essential for performance in this unit of competency but are not explicit in the performance criteria.</i>	
Skill	Description
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Unit Mapping Information			
Code and title current version	Code and title previous version	Comments	Equivalence status
AHCARB206 Operate and maintain stump grinding machines	AHCARB206 Undertake stump removal	Deleted Elements, edited Performance Criteria for brevity and clarity	Equivalent unit

Links
Companion Volumes, including Implementation Guides, are available at VETNet: https://vetnet.education.gov.au/Pages/TrainingDocs.aspx?q=c6399549-9c62-4a5e-bf1a-524b2322cf72

TITLE	Assessment requirements for AHCARB206 Operate and maintain stump grinding machines
Performance Evidence	
<p>An individual demonstrating competency must satisfy all of the elements and performance criteria in this unit. There must be evidence that the individual has demonstrated the safe operation of a stump grinding machine which includes:</p> <ul style="list-style-type: none"> • a logbook record verifying at least ten (10) hours of operating a stump grinder • and at least five (5) hours of stump grinder operator activity including: <ul style="list-style-type: none"> • unloading and loading the grinder on a transport vehicle • setup and pre-operational and safety checks • site preparatory work • cleaning up, sharpening and basic maintenance activities. <p>There must be evidence that the individual has:</p> <ul style="list-style-type: none"> • confirmed work instructions, stumps to be removed and assessed the size and scale of the works • determined location and depth of above-and-below-ground services • completed a site-specific job safety analysis and implemented control measures • confirmed the availability of first aid and emergency equipment, personnel and procedures • unloaded stump grinder machine from transport vehicle • checked maintenance log for outstanding performance issues and reported inconsistencies • conducted pre-start checks and ensured fluid levels were within manufacturers specifications • checked safety guards, switches and dust suppression system for correct fit and operation • selected, checked and used appropriate personal protective equipment • assessed stump surrounds for impediments to stump grinding operations • ensured soil conditions were conducive to grinding operations according to manufacturer specifications • implemented work, health, safety, environmental and traffic control measure • planned and positioned stump grinding machine according to site conditions and operating procedure • implemented start-up procedure • operated stump grinder and removed waste • monitored machine operation and made adjustments according to operators instructions • undertook corrective action when machine performance or safety was compromised • shut down machine according to operator instructions • cleaned stump grinder and disposed of waste material according to operator instructions, environmental and biosecurity procedures • performed stump grinder maintenance according to manufacturer instruction • reported and recorded stump grinder performance issues and operation • loaded and secured stump grinder on transport vehicle according to safe work procedures and regulatory requirements • maintained records and reported grinding operations according to workplace procedures. 	
Knowledge Evidence	
<p>An individual must be able to demonstrate the knowledge required to perform the tasks outlined in the elements and performance criteria of this unit. This includes knowledge of:</p> <ul style="list-style-type: none"> • site hazards and risk assessment and documenting controls in job safety analysis (JSA) including: <ul style="list-style-type: none"> • control measures for work health, safety, site, environmental and traffic control • personal protective equipment • first aid kits and access • emergency procedures • methods and purpose for locating above and below ground services • exclusion zones, barriers and fencing • pre-operational checks of stump grinders including: <ul style="list-style-type: none"> • maintenance logs and their purpose • belts and pulleys, wear and replacement • cutter head and teeth adjustments and sharpening 	

Knowledge Evidence
<ul style="list-style-type: none"> • tyre pressure • oil and fluid levels • preparing and adding fuel • hydraulic hoses • brakes • engine types and fuels • safety checks of stump grinders including: <ul style="list-style-type: none"> • guards for belt, power take-off (PTO) and grinder head • kill switch • dead man • debris curtain • dust suppression • operation of stump grinders including: <ul style="list-style-type: none"> • impediments to stump grinding operations • cutter head engagement and disengagement • positioning of stump grinders and operator • methods of determining spread and depth of cut • methods and depth of cut • engine speed (rpm) • common faults, their signs and symptoms • environmental implications of stump grinding operations including: <ul style="list-style-type: none"> • methods of collecting waste material and disposal or recycling methods • basic maintenance of stump grinding machines including: <ul style="list-style-type: none"> • sharpening teeth • teeth replacement • belt replacement • fluid levels and fuels • records of operator usage in log record • methods of maintaining records for basic maintenance and replacement items.

Assessment Conditions
<p>Assessment of skills must take place under the following conditions:</p> <ul style="list-style-type: none"> • physical conditions: <ul style="list-style-type: none"> • access to stumps ready for grinding • resources, equipment and materials: <ul style="list-style-type: none"> • stump grinder • tooth sharpening equipment • tools and equipment for conducting basic maintenance practices • replacement belts and cutter teeth • fuel and spill kit • personal protective equipment (PPE) • first aid, emergency and traffic management kit • specifications: <ul style="list-style-type: none"> • workplace and manufacturer documentation and instructions for safe operation, cleaning and storage of cable and bracing equipment • access to current industry standards for cable and bracing and pruning • access to arboriculture hygiene and biosecurity standards • specifications for the installation of cable and bracing systems for specific tree defects. <p>Assessors of this unit must satisfy the requirements for assessors in applicable vocational education and training legislation, frameworks and/or standards.</p> <p>In addition, the following specific assessor requirements apply to this unit:</p> <ul style="list-style-type: none"> • arboriculture vocational competencies at least to the level being assessed • current arboriculture industry skills directly relevant to the unit of competency being assessed.

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