



Australian Government

Assessment Requirements for AHCARB212 Operate and maintain stump grinding machines

Release: 1

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Modification History

Release	Comments
Release 1	This version released with AHC Agriculture, Horticulture and Conservation and Land Management Training Package Version 5.0.

Performance Evidence

An individual demonstrating competency must satisfy all of the elements and performance criteria in this unit.

There must be evidence that the individual has safely operated a stump grinding machine to remove at least one stump no less than 60cm in diameter, including:

- unloaded and loaded the grinder on a transport vehicle
- carried out set-up and pre-operational and safety checks
- prepared the site ready for stump grinding work
- cleaned, sharpened and maintained the stump grinder.

There must also be evidence that the individual has:

- confirmed work instructions and stumps to be removed, and assessed the size and scale of the works
- confirmed hazards and controls from job safety analysis (JSA) including:
 - located services
 - selected, checked and used appropriate personal protective equipment
 - confirmed the availability of first aid and emergency equipment, personnel and procedures
 - implemented workplace health, safety, environmental and traffic control measures
- reviewed the maintenance log for outstanding performance issues, and reported inconsistencies
- assessed stump surrounds for impediments to stump grinding operations and planned and positioned stump grinding machine according to site conditions and operating procedures
- implemented start-up procedure and operated stump grinder including monitored ongoing performance and undertook adjustments and corrective action where performance was lacking
- shut down machine according to operator instructions and cleaned stump grinder disposing of waste material according to environmental and biosecurity procedures
- maintained records and reported grinding operations according to workplace procedures.

Knowledge Evidence

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:

- site hazards, risk assessment and documenting controls in JSA, including:
 - control measures for workplace 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:
 - maintenance logs and their purpose
 - belts and pulleys, wear and replacement
 - cutter head and teeth adjustments and sharpening
 - tyre pressure
 - oil and fluid levels
 - preparing and adding fuel
 - hydraulic hoses
 - brakes
 - engine types and fuels
- safety checks of stump grinders, including:
 - guards for belt, power take-off (PTO) and grinder head
 - kill switch
 - dead man
 - debris curtain
- operation of stump grinders, including:
 - impediments to stump grinding operations
 - cutter head engagement and disengagement
 - positioning of stump grinders and operator
 - methods for determining spread and depth of cut
 - engine speed (rpm)
 - common faults, their signs and symptoms
- environmental implications of stump grinding operations, including methods of collecting waste material and disposal and recycling
- basic maintenance of stump grinding machines, including:
 - sharpening teeth
 - teeth replacement
 - belt replacement
 - records of operator usage in log record

- methods of maintaining records for maintenance and replacement items.

Assessment Conditions

Assessment of the skills in this unit of competency must take place under the following conditions:

- physical conditions:
 - access to stumps ready for grinding
- resources, equipment and materials:
 - stump grinder
 - tooth sharpening equipment
 - tools and equipment for conducting basic maintenance practices
 - cutter teeth
 - fuel and spill kit
 - personal protective equipment
 - first aid, emergency and traffic management kit
- specifications:
 - workplace procedures for stump grinding
 - manufacturer instructions for safe operation, cleaning and storage of stump grinding equipment
 - arboriculture hygiene and biosecurity standards.

Assessors of this unit must satisfy the requirements for assessors in applicable vocational education and training legislation, frameworks and/or standards. In particular, assessors must have:

- arboriculture vocational competencies at least to the level being assessed
- current arboriculture industry skills directly relevant to the unit of competency being assessed.

Links

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