Carry out winch assisted tree felling in the electricity supply industry

Level 4
Credits 10

Purpose People credited with this unit standard are able to: demonstrate knowledge of winch assisted tree felling; prepare a winch system to assist in tree felling; and fell trees with a winch system.

Subfield Electricity Supply
Domain Electricity Supply - Distribution Networks
Status Registered
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Entry information Prerequisites: Unit 18031, Measure and prune trees around electricity lines for vegetation control to minimum approach distance; and Unit 17258, Use advanced felling techniques in arboriculture; or demonstrate equivalent knowledge and skills.

Accreditation Evaluation of documentation and visit by NZQA and industry.

Standard setting body (SSB) Electricity Supply Industry Training Organisation

Accreditation and Moderation Action Plan (AMAP) reference 0120
This AMAP can be accessed at http://www.nzqa.govt.nz/framework/search/index.do

Special notes

1 This unit standard is intended for, but not restricted to, workplace assessment. The range statements within the unit standard can be applied according to industry specific equipment, procedures, and processes.

2 Safety of personnel and plant must be a priority throughout the assessment. If the safety requirements are not met the assessment must stop.

The phrase in accordance with industry requirements is implicit in all elements and performance criteria in this unit standard.

Definitions
Industry requirements include all asset owner requirements; manufacturers’ specifications; and enterprise requirements which cover the documented workplace policies, procedures, specifications, business, and quality management requirements relevant to the workplace in which assessment is carried out. Winch assisted covers the use of hand and machine winches to fell trees.

Elements and performance criteria

Element 1

Demonstrate knowledge of winch assisted tree felling.

Performance criteria

1.1 Situations and reasons for using machine assistance are described.

   Range difficult trees and sites, wind throw, hazards, boundary, environmental considerations.

1.2 Differences between winch assisted and conventional tree felling are described.

1.3 Situations that occur in felling trees using winch assistance are explained.

   Range includes but is not limited to – machine requirements, machine positioning, winch use, tree pushing, tree pulling, use of observer, communication, responsibilities of all parties, rope use, making felling cuts.

1.4 Responsibilities and training requirements for winch operator involved are described.
Element 2

Prepare a winch system to assist in tree felling.

Performance criteria

2.1 Winch system is checked for capability to handle all aspects of the operation.
2.2 Requirements and responsibilities for all elements of the task are established with all parties involved.
2.3 Equipment and methods for safe and efficient winch operation are applied.
2.4 Communication is established between all parties.
   Range verbal and/or signals.
2.5 All parties are notified of operations.

Element 3

Fell trees with a winch system.

Performance criteria

3.1 Felling tasks are planned according to the conditions on site and the resources available.
   Range felling direction, machine positioning, safety, equipment, method to be employed.
3.2 Winches are positioned for the task and correctly stabilised.
3.3 Felling cuts are applied to fell each tree directionally as circumstances dictate.
3.4 Felling is completed to operational requirements using signals to direct winch pushing and pulling trees.
3.5 Hazards are identified, and eliminated, isolated, or minimised.

Please note

Providers must be accredited by NZQA, or an inter-institutional body with delegated authority for quality assurance, before they can report credits from assessment against unit standards or deliver courses of study leading to that assessment.

Industry Training Organisations must be accredited by NZQA before they can register credits from assessment against unit standards.

Accredited providers and Industry Training Organisations assessing against unit standards must engage with the moderation system that applies to those standards.
Accreditation requirements and an outline of the moderation system that applies to this standard are outlined in the Accreditation and Moderation Action Plan (AMAP). The AMAP also includes useful information about special requirements for organisations wishing to develop education and training programmes, such as minimum qualifications for tutors and assessors, and special resource requirements.

Comments on this unit standard

Please contact the Electricity Supply Industry Training Organisation info@esito.org.nz if you wish to suggest changes to the content of this unit standard.