

LANTw32 - SQA Unit Code H2NA 04

Carry out aerial cutting of trees using a crane



Overview

This standard is about the removal of tree sections using a crane. The work will be carried out by operators with good experience of climbing and access in trees

You will need to carry out a tree hazard evaluation and perform a 'working at height' assessment before starting this work. You will carry out cutting operations using recognised arboriculture access techniques. You will gain access from a rope and harness

This standard covers the removal of single limb/parts of tree canopy to the complete removal of trees using a crane

Your work must conform to all current legislation and codes of practice

This standard is for those removing sections with the assistance of a crane

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Performance criteria

You must be able to:

- P1 assess the risks associated with the site and the proposed works
- P2 select and implement appropriate working method in accordance with the assessed risks
- P3 select and use access and positioning methods appropriate to the assessed risks and the method statement
- P4 select an appropriate anchor point to access/position for the access equipment so that the anchor point/position will not be compromised by the tree or any part of the work being carried out
- P5 calculate the expected loads the rigging needs to take, within its design/safety factors, and select compatible components to make up the rigging system
- P6 assess the position of the crane to facilitate removal of tree sections
- P7 agree with crane operator the position of the crane for work to be carried out
- P8 assess the likely directions of pivot and attach slings accordingly
- P9 inspect access equipment to ensure it is safe and fit for use under manufacturer's instructions and relevant legislation
- P10 assess the weight of the pieces to be removed and identify desired drop zone
- P11 select appropriate tools for the planned operations
- P12 select appropriate work position and execute appropriate cut
- P13 communicate with crane operator and ground staff in relation to the progress of operations
- P14 use a pull/tag line to aid removal of sections to protect self, infrastructure and other targets
- P15 deal appropriately with the arisings
- P16 maintain the health and safety of yourself and others at all times in accordance with current legislation

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Knowledge and understanding

You need to know and understand:

- K1 how to identify hazards and assess risks
- K2 how to interpret risk assessments
- K3 emergency planning and procedures relevant to the site
- K4 how to evaluate the tree for hazards and the implications of the hazards when identified
- K5 how to select appropriate anchor points/position of access equipment so the anchor point will not be compromised by the working being carried out
- K6 the importance of accurate and appropriate cuts when removing tree sections and their effect on the section being removed
- K7 the advantages and disadvantages of the available tools and equipment to perform cutting operations
- K8 how to communicate with crane operator and ground staff
- K9 how to identify tree species and how the species and condition of trees will affect your work
- K10 how to install and use pull/tag line to aid removal of sections.
- K11 the potential impacts of your work on the environment and how this can be minimised
- K12 the advantages and disadvantages of removing tree sections using a crane
- K13 how to calculate expected loads when removing tree sections using a crane
- K14 how to assess likely direction of pivot
- K15 your responsibilities under current environmental and health and safety legislation

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