

LANTw31 - SQA Unit Code H2NJ 04

Carry out aerial tree rigging



Overview

This standard is about the removal of sections from a tree crown under the control of rope rigging and lifting gear. The work will be carried out by operator with significant experience of arboriculture operations and chainsaw operations in a canopy

You will carry out a tree hazard and a 'working at height' assessment to determine if the operative is safe to perform the work and to determine the safest and most efficient access method

This aerial work must be supported by a ground worker with significant experience of aerial treework and rigging techniques

This standard covers the use of rigging for the removal of small tree sections in relation to pruning operations where targets below may pose a significant risk through to the removal of part/whole trees where targets do not allow for free-fall/hand thrown techniques

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

This standard is for operators with significant experience of arboriculture operations and chainsaw operations in a canopy

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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 meet specified legislative and organisational environmental requirements in relation to carrying out aerial treework
- P4 perform a hazard evaluation and a 'working at height' assessment of the tree prior to work commencing
- P5 select and use access and positioning methods appropriate to the assessed risks and the method statement
- P6 inspect access equipment to ensure it is safe and fit for use under manufacturer's instructions and relevant legislation
- P7 plan and implement a rescue plan and update through out the work
- P8 calculate the expected loads the rigging needs to take, within its design/safety factors and select compatible components to make up the rigging system
- P9 assess the position and selection of anchor points for rigging components in relation to expected load, ground crew, other anchor points, access equipment position, planned drop zone and processing area
- P10 remove lowerable tree sections using suitable cuts minimising shock loading in the rigging system
- P11 communicate with ground staff in relation to the appearance and progress of the pruning operation
- P12 deal appropriately with the arisings
- P13 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 select, prepare and use tools and equipment that are appropriate to the work, safely and effectively
- K5 how to assess the proposed operations for risks and the control measures to be implemented for the risks involved and the site, including working at height
- K6 how to evaluate the tree for hazards and the implications of the hazards when identified
- K7 how to calculate expected loads generated by rigging operation
- K8 how to select compatible components to make up a rigging system appropriate for the expected load
- K9 how to select suitable anchor points for the expected loads without compromising the workers access position.
- K10 how to select suitable access position and planned drop zones
- K11 how to plan and layout rigging site on the ground to safeguard the ground crew, aid workflow, to deal with arising and the desired drop zones
- K12 how to set up communication systems
- K13 how to remove lowerable tree sections using suitable cuts minimising shock loading in the rigging system
- K14 when tree rigging would be required and its limitations
- K15 how, when and where to use compound or complex rigging systems
- K16 how to install and use pull/tag line to aid removal of sections
- K17 the potential impacts of your work on the environment and how this can be minimised
- K18 your responsibilities under current environmental and health and safety legislation

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Glossary

Compound/complex rigging systems

- 1 drift line
- 2 load transfer
- 3 balance
- 4 cradle
- 5 spider leg
- 6 speedline/skyline
- 7 fake anchor points
- 8 craning and lifting techniques
- 9 crane removal

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Suite Treework

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