

## Measure and assess felled timber volume and quality

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### Overview

This standard is about measuring and assessing the volume and quality of felled timber using the appropriate methods and tools.

Your work must conform to all relevant legislation and codes of practice when carrying out this work.

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### Performance criteria

You must be able to:

1. assess the risks associated with the site and the proposed work
2. select and use appropriate personal protective equipment (PPE) for the work
3. measure and record the volume of felled timber, in line with the specification
4. use and maintain the appropriate measuring equipment
5. assess the quality of felled timber
6. maintain the health and safety of yourself and others at all times, in accordance with relevant legislation

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### Knowledge and understanding

You need to know and understand:

1. how to identify hazards and assess risks
2. how to interpret risk assessments
3. the selection, use and care of personal protective equipment (PPE)
4. how to use sawlog rulers and metric volume tables
5. the classification and presentation of softwood sawlogs
6. how to use hoppus feet tables when assessing and forecasting felled timber volumes for large broadleaved trees
7. how to measure, record and calculate the volume of felled timber for stock taking, for ascertaining sale type and payment in relation to work done
8. how to use computer volume calculation packages
9. the relationships between over band (O/B), under band (U/B), tonnes based on species, size and age of timber, time of year and length of time felled
10. how to identify tree species from felled timber
11. the features of different species of wood and how this affects their quality and potential value
12. the different grades of timber and their relative value
13. your responsibilities under relevant environmental, health and safety legislation and codes of practice

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### Scope/range related to knowledge and understanding

How to measure:

- individual logs and poles
- individual trees
- small roundwood

Volume of felled timber:

- top diameter under bar (U/B) and mid-diameter over bar (O/B) x length (for logs and poles)
- average top diameter x length (for small roundwood estimates)
- average length x height x breadth x c/f for air space (for stacked volume)
- measurement of volume and conversion to cubic metres U/B
- cubic metres O/B – tonnes/m<sup>3</sup> conversion factor

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