

17 INSTALLATION OF STRUCTURAL SUPPORTS



Use of this worksheet

This worksheet is part of a series of interactive worksheets that has been produced in association with Husqvarna to support the delivery of training for the City & Guilds (NPTC) suite of chainsaw qualifications.

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Content

This worksheet covers the following outcomes:

Be able to install and maintain structural supports for trees

Understand how to install and maintain structural supports for trees

When a structural support system is appropriate

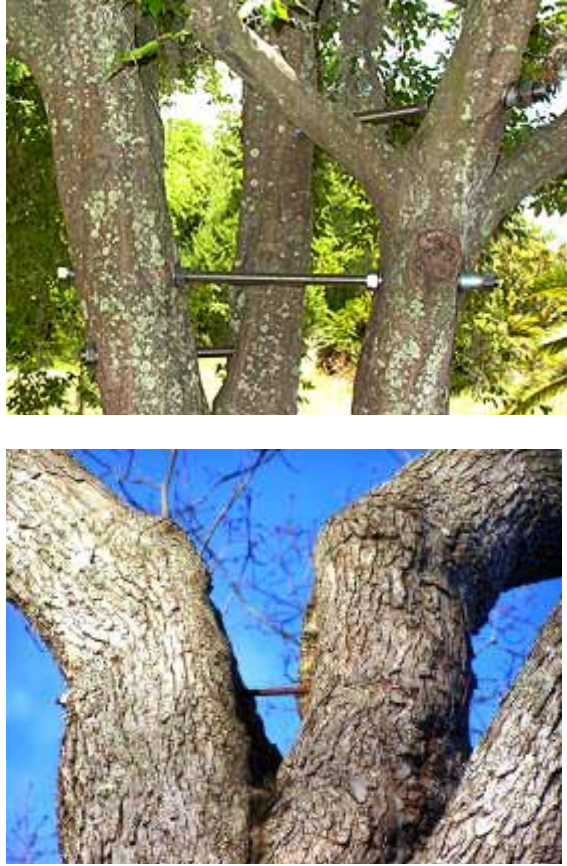
There can be a number of circumstances when the installation of a structural support system is deemed to be appropriate (enter the missing words). These include:




- when _____ are found in the tree
- to _____ defects
- to _____ trees of high amenity or intrinsic value (Heritage Trees or trees with historic value)





Different types of structural support system, their application, installation and maintenance

For each of the structural support systems featured, describe their application, installation and maintenance requirements.

Type of Support System	Their application, installation and maintenance
<p>Rigid Bracing</p> 	<p>When it is used (application):</p> <p>How it is installed:</p> <p>Maintenance requirements:</p>

Type of Support System	Their application, installation and maintenance
<p>Propping</p>   	<p>When it is used (application):</p> <p>How it is installed:</p> <p>Maintenance requirements:</p>

Type of Support System	Their application, installation and maintenance
<p>Rod</p>  	<p>When it is used (application):</p> <p>How it is installed:</p> <p>Maintenance requirements:</p>

The most suitable structural support system for the situation and wellbeing of the tree

For each of the pictures below, state the most suitable structural support system for the situation and for the continued wellbeing of the tree.

Tree that may require support	Suitable support
	
	
	

How to determine the appropriate position for the installation of a support

There are a number of points to take into account when deciding where to install the support; the decision will depend on a range of factors, and vary from situation to situation.

In the box below list the factors that should be considered.

- 1.
- 2.
- 3.
- 4.
- 5.
- 6.
- 7.
- 8.

Pruning techniques that can supplement the use of a structural support system

There are a number of pruning techniques that can be used to supplement physical support given to a tree.

For the techniques given below, state how each one is carried out and how it can help to supplement the physical support of the tree.

Branch end reduction



Branch end reduction is carried out by:

Branch end reduction may support the installation of structural support by:

Crown Thinning



Crown thinning is carried out by:

Crown thinning may support the installation of structural support by:

It generally does not exceed __ % of the tree canopy.

Crown Reduction

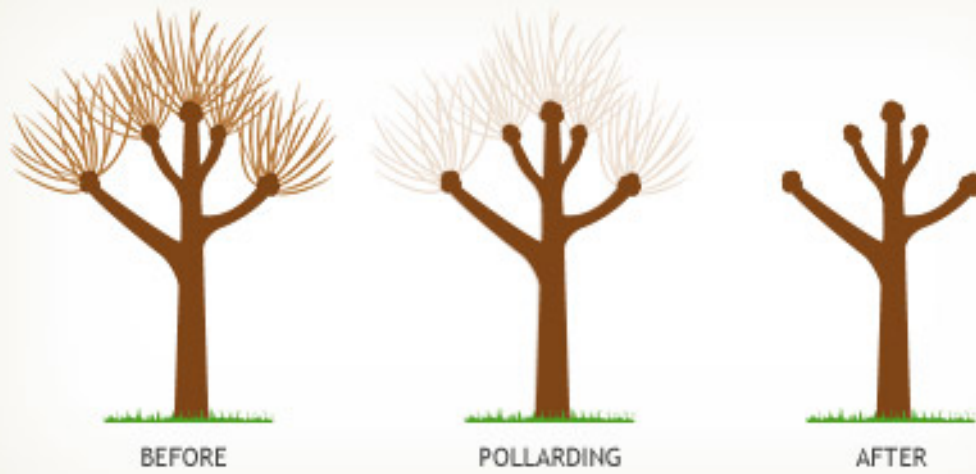


Crown reduction is carried out by:

Crown reduction may support the installation of structural support by:

The accepted 'rule' is that only $\frac{1}{3}$ rd of the branches are generally removed and topping cuts are NOT used.

Pollarding



Pollarding is:

Pollarding may support the installation of structural support by:

Notes

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