

Chainsaw – Maintenance, Cross-cutting and Felling Small Trees up to 380mm CLMC44X/R



Credit value	3.2 Horticulture and Forestry
Notional level	
Subject area classification	
Course type	

Attendance only

Objectives	<ul style="list-style-type: none"> • State and identify the necessary personal protective equipment required (PPE), report on its condition and locate the various standard marks. • State and identify required safety and health features on a chainsaw. • Identify faults and defects on a chainsaw and cutting equipment and decide which the operator can remedy and which require a service engineer's attention. • Select and identify correct tools to enable maintenance to be carried out and report on their serviceability. • Carry out correctly all routine maintenance in accordance with the manufacturer's instruction book and/or the Lantra Awards workbook. • Prepare the chainsaw for use with the correct fuel/oil mix and chain lubrication. • Start the chainsaw from both cold and hot in a safe manner. • Carry out pre-cutting safety tests and state the procedures if the chainsaw fails these tests. • State the possible hazards/risks when carrying out maintenance or operational tasks. • Cross-cut timber accurately to required lengths. • Assess and explain the terms 'tension' and 'compression' in timber. • Adopt safe procedures to remove a trapped guidebar. • Handle and stack timber in a safe manner. • Organise site safety and state the precautions required. • Identify types of timber, potential hazards and stresses, correctly assess if timber is in compression or tension and select the appropriate technique to deal with the particular situation. • Correctly assess the situation prior to tree felling a straight open grown tree up to a maximum of 380mm/15" diameter and, with the aid of wedges and/or a felling lever, fell it in a chosen direction. • Remove limbs from felled trees and cross cut, handle and stack timber in a state and efficient manner. • Take down hung up trees using hand tools. • Recognise situations where specialist help is required.
Target audience	<p>This course is for novice learners with little or no experience of chainsaw use who are required to operate chainsaws for cross cutting and felling up to guidebar length. The course is designed to prepare learners for assessment for NPTC Level 2 Award units CS 30 and 31.</p> <p>People involved in:</p> <ul style="list-style-type: none"> • forestry • arboriculture • agriculture • horticulture

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Target audience continued	<ul style="list-style-type: none"> • woodland Industries • local authorities • conservation • construction • land-based industries. <p>Learners must be physically fit and able to carry out the tasks required of the course programme.</p>	
Duration/timing	<p>CLMC44X – five long days when daylight permits. A practical course which can be split into two and three day sessions. These are minimum durations and some learners may need further consolidation.</p> <p>CLMC44R – three day refresher.</p>	
Ratios	<p>Instructor : learner 1:4 Machine : learner 1:1</p>	
Course sessions	<ul style="list-style-type: none"> • PPE • Safety and health features of a chainsaw • Maintenance of chainsaws • Fuelling and starting a chainsaw and performing pre-cutting checks • Adjusting the chainsaw 	<ul style="list-style-type: none"> • Felling small diameter trees • De-limbing trees • Cross-cutting timber • Additional felling techniques • Take-down of hung-up trees • Clearing site and chainsaw checks
Facilities and equipment	<p>It is the specific responsibility of the training provider in consultation with the instructor to ensure that risk assessments have been carried out and that the following items are available. Please liaise and co-operate with the training provider (and with the host where applicable) to agree who will provide the various items.</p> <p>The training provider is responsible for advising the learners of the equipment they must bring on the course. A pre-course handout has been produced for guidance.</p> <p>Training provider</p> <ul style="list-style-type: none"> • Flipchart or board. • NPTC assessment schedule – one per learner, if required. • Sufficient timber of suitable diameter and height to allow practice for each learner. • First aid kit which complies with Health and Safety (First Aid) Regulations 1981 plus large wound dressings. • If working in a remote site, mobile telephone or radio and vehicle available to transport an injured person. • Location and telephone number of hospital with 24 hour emergency. 	

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<p>Facilities and equipment continued</p>	<p>Instructor</p> <ul style="list-style-type: none"> • Chainsaws as per HSE guidance and pre-course handout. • Saw chain filing vices and clamps for bench fitting. • Instructor’s operational tools as per list in instructor manual. • Operator’s maintenance kit and equipment as per pre-course handout. • 2-stroke fuel and saw chain oil. • A selection of faulty chain, guidebars, sprockets and so on for comparison with new or well-maintained items. • PPE as per pre-course handout. • Samples of saw chain showing different profiles and safety features. • NPTC assessment schedule – one per learner, if required. • First aid kit which complies with Health and Safety (First Aid) Regulations 1981 plus large wound dressings. • If working in a remote site, mobile telephone or radio and vehicle available to transport an injured person. • Location and telephone number of hospital with 24 hour emergency service. <p>Learner</p> <ul style="list-style-type: none"> • Chainsaws as per HSE guidance and pre-course handout. • PPE as per pre-course handout. • Operator’s maintenance kit and equipment as per pre-course handout. • 2-stroke fuel and saw chain oil. <p>NB: Instructors have been instructed not to undertake training where learners do not have the appropriate protective equipment and appropriate saw.</p>
<p>Venue</p>	<p>Warm, dry, well-lit workshop complying with health and safety regulations and adequate bench space.</p> <p>Room with tables and chairs.</p> <p>Liaise with instructor for suitable felling site.</p>
<p>National Occupational Standards</p>	<p>Lantra Awards has identified the relationship between the key content of its provision and National Occupational Standards (NOS).</p> <p>These standards describe the skills, knowledge and understanding needed to undertake a particular task or job to a nationally recognised level of competence.</p> <p>This course provides the underpinning knowledge for the following:</p>

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National Occupational Standards	NOS Unit	NOS Unit Title
Land-based Operations (Jan 2002)	CU17	Assist with the maintenance of equipment
Land-based Operations (Jan 2002)	CU66	Contribute to the preparation of forest and woodland sites
Land-based Operations (Jan 2002)	CU67	Crosscut and stack forest and woodland produce manually
Land Based Service Engineering (Jan 2002)	LBSE1	Contribute to Health and Safety
Land Based Service Engineering (Jan 2002)	LBSE6	Maintain the work area
Land Based Service Engineering (Jan 2002)	LBSE9	Maintain health and safety in the work environment
Land Based Service Engineering (Jan 2002)	LBSE11	Diagnose faults in tractors and machinery
Land Based Service Engineering (Jan 2002)	LBSE12	Dismantle, assemble and repair components in tractors and machinery
Treework (Mar 2002)	T12	Convert and stack wood produce manually
Treework (Mar 2002)	T23	Dispose of residues from treework operations
Greenwood Trades and Coppicing (Oct 2006)	GWT1	Work safely and according to environmental good practice
Greenwood Trades and Coppicing (Oct 2006)	GWT4	Select trees for coppicing and cut coppice
Common Unit	CU2	Monitor and maintain health and safety