

## Abrasive Wheels

**CLMB02X (Bench Mounted), CLMB03X (Hand Held Electrical and Hand Held Engine Driven), CLMB04X (Hand Held Engine Driven), CLMB05X (Hand Held Electrical), CLMB06X (Bench Mounted, Hand Held Electrical and Hand Held Engine Driven), CLMB07X (Bench Mounted and Hand Held Electrical), CLMB08X (Bench Mounted and Hand Held Engine).**

### Course Objectives

As a result of this course, participants will be able to:

- Understand the nature of the hazards and identify the causes
- Identify and understand requirements and responsibilities under the current legislation
- Understand the characteristics of abrasive and their action
- Understand and interpret the marking system of abrasive wheels
- Recognise the need for careful handling of abrasive wheels and carry out visual check and ring tests (bench grinders)
- Understand and identify what speeds should be adhered to in wheel selection
- Identify main components and understand their functions
- Mount an abrasive wheel and /or a diamond blade
- Understand the difference between truing and dressing a wheel, undertake dressing a wheel and identify dressers (bench grinders)
- Adjust work rests correctly (bench grinders)
- Use operating precautions and be aware of avoiding hazardous conditions
- Demonstrate their knowledge on abrasive wheels and diamond blades
- Carry out daily maintenance on petrol powered machines

### Who is the Course For?

Farmers, managers, fitters, foremen and workers who are required to use abrasive wheels or petrol powered saws and supervise their use.

### Duration/Format NVQ/SVQ Linkage

- One day

### Instructor/Trainee Ratio

**Max:** 1:6     **Min:** 1:2

### Course Content

#### GENERAL:

Introduction and aims of course  
 Legislative responsibilities  
 Abrasive wheel characteristics and cutting action  
 Abrasive wheel composition and marking system  
 Wheel and spindle speed  
 Inspection, handling, storage and transport  
 Personal Protective Equipment  
 Abrasive wheel components  
 Hazards arising from use of abrasive wheels and saws

#### ABRASIVE WHEELS:

Mounting an abrasive wheel  
 Adjustment of work rests  
 Truing and dressing the wheel  
 Mounting a diamond blade  
 Fault finding

#### PETROL DRIVEN SAWS:

Diamond blades  
 Maintenance

#### USE OF EQUIPMENT:

The safe use of equipment  
 Practical Assessment and Assessment of Underpinning knowledge

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<b>Facilities/Equipment required:</b>	<b>Organiser</b> <b>Skills Guides</b> Pencils/name labels Overhead projector Bench mounted grinder, petrol driven saw, and hand held machines (relevant to each course) in safe working order. Eye protection (CE EN166 B) Fire extinguisher Charts First aid kit complying with first aid regulations. RCCB (residual current circuit breaker)	<b>Instructor/Tutor</b> Charts Selection of abrasive wheels Types of dressers Assorted bags of grit First aid kit complying with first aid regulations. RCCB (residual current circuit breaker) REV counter	<b>Trainee</b> Eye protection (CE EN166 B) Suitable protective workshop clothing Bench mounted grinder, petrol driven saw, and hand held machines (relevant to each course) in safe working order.
<b>Publications included in package</b>	<b>Venue</b> Work place, adequate and complying with workplace regulations with materials to cut and grind and clamping equipment. Room with table and chairs. Skills Guide Practical Assessment Report Form Theory Test Paper		
<b>Instructor – Basic Registration Criteria</b>	Please refer to the Lantra Awards Instructor Information pack.		
<b>Instructor – Technical Skills Knowledge and Experience</b>	<b>As specified in Lantra Awards Criteria for Approval and Code of Practice</b>		
<b>Instructor – Certification (if desirable)</b>	<b>As specified in Lantra Awards Criteria for Approval and Code of Practice</b>		