

## Abrasive Wheels

Abrasive wheels are essential equipment in many industries, and the range of abrasive wheels now available makes them even more flexible and effective workshop tools. However inexperience or carelessness in the use of abrasive wheels can be very dangerous and serious accidents can and do occur without proper training.

Our abrasive wheel course will provide you with the confidence you need to ensure that you are working confidently and safely. It covers both theory and hands-on practice. You'll learn all about the essential safety regulations you need to know and how to protect yourself with the right clothing. You'll also cover how abrasive wheels work, how they're constructed and why it's important to select the right speed for the job. To keep them in tip-top condition, we'll show you how to look after and store them. Then you'll have the chance to practise operating the abrasive wheel machine that you've brought along with you.

Training is a legal requirement. The Provision and Use of Work Equipment Regulations 1998 (PUWER) require employers to provide adequate training and to ensure that abrasive wheels are operated only by employees who have received appropriate training in their safe use. If you are self-employed, the regulations still apply.

### Who is the Course For?

If your working environment involves the use of hand held engine driven abrasive wheel tools, and you want to ensure the effective and safe use of them, then this course will provide you with the knowledge to make sure that the abrasive wheel tools are being operated correctly and safely. You will also receive a certificate of training in hand held engine driven abrasive wheel tools.

### Duration/Format

One day

### Instructor/Trainee Ratio

**Max:** 1:6    **Min:** 1:2

### Course Objectives

#### To enable course members 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 abrasives and their action
- Understand and interpret the marking system of abrasive wheels
- Understand how to handle and store abrasive wheels
- Understand how to select and check abrasive wheels before use
- 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
- Carry out daily maintenance on petrol powered machines
- Operate the equipment in a safe and appropriate manner

### Course Content

- Abrasive wheel safety and the law
- Personal Protective Equipment
- Abrasive wheel characteristics and cutting action

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<b>Certification:</b>	<ul style="list-style-type: none"><li>• Abrasive wheel composition and marking system</li><li>• Wheel and spindle speed</li><li>• Inspection, handling, storage and transport</li><li>• Machine and wheel components</li><li>• Practical session – will depend on your type of abrasive wheel machine e.g. Bench mounted grinder, hand held electric driven grinder/disc cutter, Bench mounted cut-off saw, Hand held engine driven disc cutter</li></ul>
<b>Facilities/Equipment required:</b>	<p>The course can be run as integrated training and assessment registered with Lantra Awards. Successful candidates will be awarded a Lantra Certificate of Competence.</p> <p><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.</p> <p><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.</p>