



# Safe Use of Abrasive Wheels

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## **COURSE CONTENT**

### **Aim**

The aim of this course is to train selected people in the skill and knowledge needed to achieve the standards of competence to carry out their duties in respect of the safe use and changing of abrasive wheels.

### **Pre-requisite**

Knowledge of pedestal and portable grinding equipment is needed.

### **Course Duration**

The course will be of one day duration.

### **Optimum number**

The optimum number on this course will be between six and ten persons.

### **Training Aids**

Use will be made of lecture notes and audio-visual presentation.

## **Assessment**

The course will be assessed by both written and practical tests if required.

## **Additional Information**

### **PROVISION AND USE OF WORK EQUIPMENT REGULATIONS 1998 – PUWER**

This is absolute duty for abrasive wheels it has now been replaced by similar duties for work equipment that are likely to present a specific risk.

Under PUWER 1998 regulations the decision as to whether people who mount abrasive wheels need to be trained and appointed does not depend, as it did, on whether an abrasive wheel is likely to rupture or disintegrate (manufacturers information and safety testing).

## **Training**

The section on training recommends that training should be accordance with the schedule of training requirements given in the Abrasive Wheel Regulations 1970 and lists the topics in the schedule that need to be covered.

Safety in the use of Abrasive Wheels.

## COURSE SYLLABUS

- Abrasive Wheels Characteristics
- Making system
- Permissible Working Speed
- Safety Ground in Grinding Operations
- Examination, handling and storage
- Selection of wheels
- Abrasive Wheel speeds
- Peripheral and angular speed
- Factor of safety
- The Grinding Machine
- Work rests
- Stopping devices
- Spindles
- Mounting of Abrasive Wheels
- Flanges and material for flanges
- Finish of bearing surfaces
- Driving flange

- Clamping bolts
- Securing the wheel
- Inspection before mounting
- Testing the wheel
- Uniformity of diameter
- Checking the speed
- Starting the wheels
- Machine Guards
- Purpose and construction
- Exposure angles
- Additional protection
- Operation of Abrasive Wheels
- Truing and dressing
- Wheel balance
- Protection of eyes
- End of Course Assessment and Test

**Dates available on request**

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