



ABRASIVE WHEEL SAFETY

DURATION: Half Day

AIM: To provide for competence in the mounting, truing and dressing of abrasive wheels for use on bench grinders, angle grinders and cutting off machines and in accordance with the requirements of the PUWER Regulations.

OBJECTIVES: On completion of the course delegates will be able to:-

1. Understand the legal implications of working with grinding equipment.
2. Describe the main causes of accidents with abrasive wheels and their prevention.
3. Describe the main characteristics of abrasive wheels from given Manufacturers information.
4. Recognise unsatisfactory wheel condition.
5. Understand the requirements for wheel guarding.
6. Demonstrate the necessary knowledge to mount abrasive wheels correctly.
7. True and dress abrasive wheels demonstrating knowledge of out of true and wheel balance conditions requiring dressing and tools and techniques involved.
8. Appreciate the correct methods for storage and handling of abrasive wheels.

PROGRAMME

Introduction	Course aims, objectives and arrangements
Accident Causation	Contact, eye injury, wheel burst, respiratory and other issues
The Legislation	Brief overview of legal requirements relating to the use of abrasive wheels.
Abrasive Wheel	Features, characteristics and the marking.
Wheel speed	Effect of forces exerted on the abrasive wheel in service.
Wheel inspection	Tap test and visual inspection.
Mounting techniques	Basic techniques for bench pedestal surface grinding machines, Angle grinders and portable machines. Components and flange arrangements.
Truing, dressing	Effects of out of balance/true condition, Huntingdon star dresser, diamond dresser. Basic balancing technique
Storage and Handling requirements	Effect of poor storage, recommended methods – HSG 17.
Wheel Guarding.	Guard purpose, HSG 17 recommendations and principles.

Post Course Test

Course Notes - Full guidance notes will be issued at the end of the training

Certification - On completion of the course a Certificate of Training will be issued