

COURSE ENTRY CRITERIA

This training course is designed for personnel who need setup, use, change abrasive and cutting wheels/discs on fixed and portable grinding machines

AIMS

To provide training to ensure the correct selection, mounting, maintenance and use of abrasive and cutting wheels/discs on fixed or portable grinding machines.

OBJECTIVES

On completion of training course, candidates should have a robust understanding of the types of abrasive wheels and discs in their workplace. The techniques required to inspect maintain and replace abrasive wheels/discs.

COURSE DESIGN

Course designed in accordance to BS EN ISO9001 : 2015 National and International Standards, and in compliance with the Health and Safety Executive Approved Codes of Practice, Manufacturers Guidelines, achieving best practice. Training Methods – Theoretical & Practical exercises

REFERENCES

HSG 17 Safety in the use of Abrasive Wheels, BS ISO 525:2013 Bonded Abrasive Products, PUWER,

MEASUREMENTS OF ACHIEVEMENT

Theoretical & Practical Exercises

C & G Services (Europe) Ltd

(BS EN ISO 9001: 2015)

In compliance with the HSE

DURATION

1 Day

RATIO

6 candidates per instructor

LOCATION

In Centre or On-Site

- Introduction, Aim and Objectives
- Duties and responsibilities of stakeholders
- Applying MindSafety to operations
- Use of the REACTEC HAVmeter (or equivalent, as issued)
- Hazards and risks associated with grinding operations
- The working environment and local exhaust ventilation
- Personal protective equipment requirements
- Types and design of abrasive wheels
- Factors Influencing the Selection of Grinding Wheels
- Methods of Inspection, including Visual & Ring Checks
- In-service maintenance of abrasive wheels
- Wheel Selection/Mounting/Dressing/Truing/Balancing
- Storing and handling of abrasive wheels
- Calculation of wheel speeds
- Wheel/Disc mounting sequence, safe procedure
- Tool rest/guard adjustment
- Safety devices, including guards e-stops and isolation requirements
- Refuelling two stroke machines (If applicable)
- Safety with electrical trailing leads
- Procedures for starting the disc cutter/grinder (if applicable)
- Basic grinding and cutting techniques

NOTE: This training course may contain practical elements that could generate harmful dusts. Candidates are to attend with their own, issued and face fit tested respiratory protective equipment (RPE). Responsibility cannot be taken for candidates arriving without the appropriately tested RPE.



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For further information on the course or course availability, please call
t. 01453 826781 e. info@gettrained.co.uk w.ww.gettrained.co.uk

Equipment Specification



NOTE: This training course may contain practical elements that could generate harmful dusts. Candidates are to attend with their own, issued and face fit tested respiratory protective equipment (RPE). Responsibility cannot be taken for candidates arriving without the appropriately tested RPE.

- Suitable classroom with sufficient tables and chairs for candidates and trainer
- White wall or projector screen
- Wipe board and/or flip chart
- 240 volt electrical supply
- Adequate welfare facilities

- **Sufficient selection of items encountered in routine cutting/grinding operations.**
- **I.e. Kerbs, Flag stones, Pipes etc.**
- **Water supply for wet cutting operations/dust control.**
- **Suitable training area to enable practical cutting exercise.**
- **Petrol disc cutter complete with extra fuel/oil mixture and box spanner (If required for training course)**
- **110 volt Angle grinder complete with spanner, transformer, extension cable, RCD and guards (If required for training course)**
- **Workshop facility fixed grinding machine in good order, blotting washers, spanners and replacement wheels.**
- **Fixed grind machines (Generally Bench or Pedestal type) should have guards, suitable isolation and materials/off cuts for practical grinding techniques.**
- **Sufficient, in date, cutting or grinding wheels to fit selected power tool (date is stamped on centre ring)**
- **All candidates will be required to perform practical cutting/grinding operations with the supplied equipment. (Petrol disc cutter or 110 Volt angle grinder).**
- **Suitable power supply at the practical training area will be required if a grinder is used.**
- **PPE in accordance with SSOW, RAMS and industry good practice**