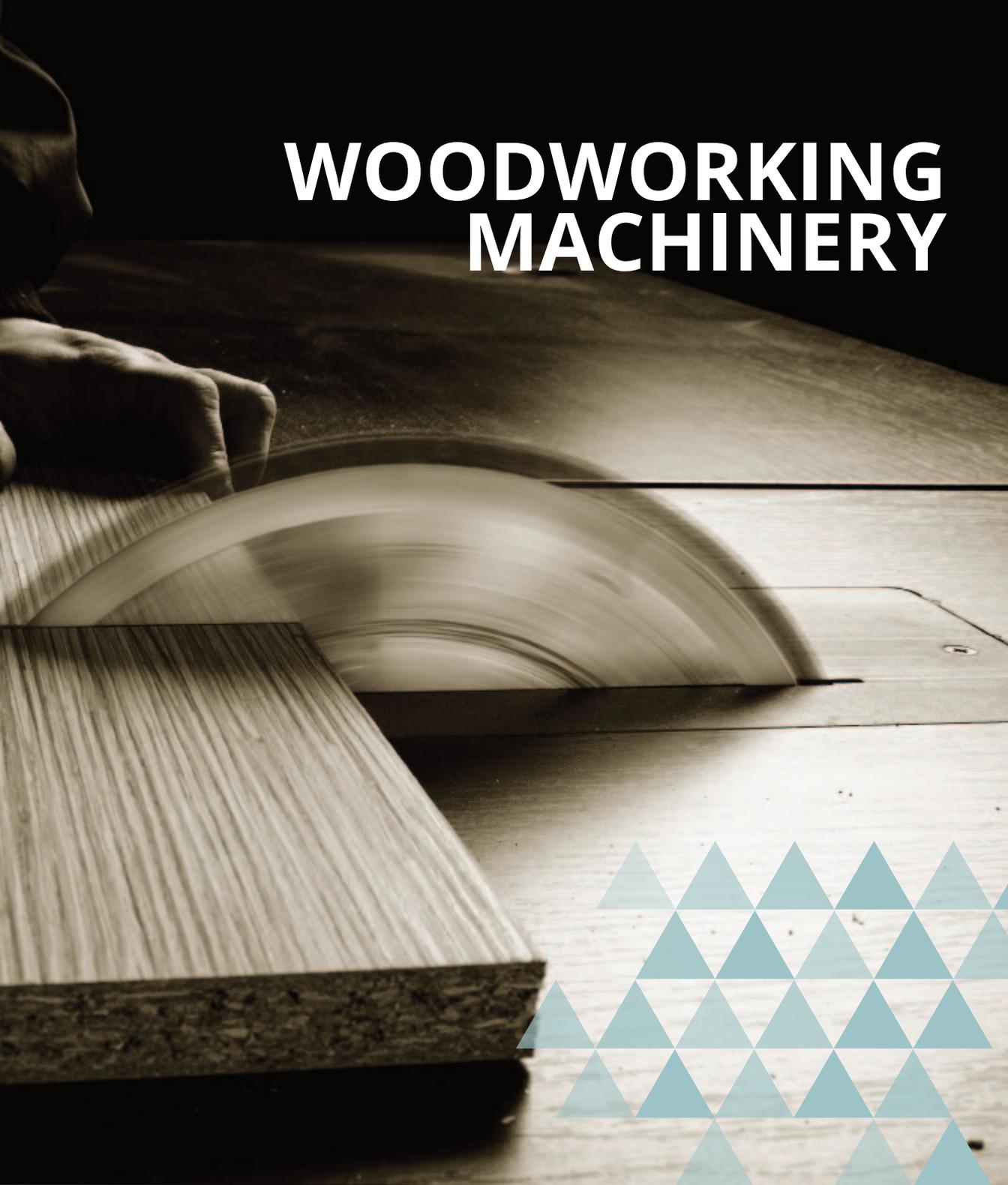


# WOODWORKING MACHINERY



BECAUSE TRAINING MATTERS

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## INTRODUCTION

Woodworking machinery presents a significant risk during use. Recent HSE accident statistics show that accidents involving contact with the dangerous parts of machinery or the material being machined accounted for approximately one quarter of all of the fatal injuries recorded in the woodworking industry, and approximately half of all major injury accidents. The risks associated with the use of woodworking machinery are high, since they rely on high-speed sharp cutters to do the job and in many cases, these are necessarily exposed to enable the machining process to take place. Additionally, many machines are still hand-fed; woodworking is probably the main industry where the hands of the operator are constantly exposed to danger.

There is a high risk of injury at the cutters and also from the ejection of workpieces from the machine, the cutters or parts of them. No two pieces of wood are the same; each piece behaves differently when machined or shaped during the production process. Knots and natural changes in the direction of the grain can give rise to snatching and kickback of the workpiece.

## PUWER REGULATIONS & ACOP

The primary objective of PUWER is to ensure that work equipment does not give rise to risks to health and safety, regardless of the work equipment's age, condition or origin.

However, because PUWER relates to work equipment in general rather than specifically to woodworking machinery, it was recognised that an Approved Code of Practice and guidance specific to woodworking machinery was needed to enable levels of safety to be maintained. References to PUWER and the ACOP are covered in the courses we provide.

## RISK ASSESSMENT

An assessment of the risks associated with the use of each woodworking machine is necessary. A risk assessment will help you identify the hazards, evaluate the risks and take the appropriate measures that are needed to eliminate or reduce the risks to an acceptable level. This assessment will help you to choose the correct machine for a particular process or operation. The main factors that need to be taken into account are the severity of any injury likely to result from any hazard present, the likelihood of that happening and the number of people exposed to it. You can then identify the actions that need to be taken.

## TRAINING

Due to the high risks associated with the use of woodworking machinery, adequate and appropriate staff training and refresher training in the use of the machinery is essential. The following courses are a sample of the programmes that we can provide at your location.

# WOODWORKING MACHINERY

## Courses

### WOODWORKING MACHINERY

#### CONTENT

- ▶ Relevant Health & Safety legislation, in particular the implications of the Provision and Use of Work Equipment Regulations 1998 and Approved Code of Practice, and COSHH
- ▶ Provide details of accident rates and underlying causes
- ▶ Cover principles of safe working practices and update on guarding systems.
- ▶ Provide safety awareness on the range of work undertaken, including guard setting, safety procedures and use of jigs where appropriate.
- ▶ Use of safety equipment including push sticks, push blocks etc.
- ▶ Saw blade geometry and use of different types of blades
- ▶ Dust extraction, PPE and safe working practices in the workshop
- ▶ Implications of COSHH and new Noise Regulations

The training takes the form of part training room and part workshop training at the individual machines. Handouts covering all information will be distributed during the course, and a certificate of attendance will be sent to each delegate on successful completion.

#### TRAINING ROOM

- ▶ Accident and Injury records (most dangerous machines and vulnerable people)
- ▶ Legislation: Health & Safety at Work act 1974, 6 Pack, PUWER, Woodworking ACOP, and reference to braking, tooling and training, COSHH and noise regulations
- ▶ Workshop hazards, safe working practices, training requirements and maintenance.
- ▶ Responsibilities; how they are delegated
- ▶ Change of emphasis to risk assessment based and safe systems of work
- ▶ General hazards in workshop
- ▶ Hazards on machines
- ▶ Safe systems of work



## WORKSHOP

### SAFETY TRAINING ON MACHINERY

To cover hazard awareness, safe working practices, correct tooling, guarding systems, danger zones and maintenance, braking requirements, dust and extraction requirements for woodworking machines.

- ▶ Practical session on safety on m/c (including essential elements of safety specification from ACOP)
- ▶ Potential risk of injuries, dangers arising and precautions to take from operating machine
- ▶ Guarding systems, machine controls on/off switch etc.

## TRIAL PIECES

Delegates to prepare trial pieces to ensure guards can be set correctly and feeding is undertaken with due reference to techniques learned on the day.

Staff will be assessed to ensure their understanding of the days instruction through a short written test and practical work. This is essential if certificates of attendance are to be issued.

## WOODWORKING MACHINERY

### SAFE WORKING PRACTICES

## CONTENT

- ▶ Health & Safety legislation, in particular the implications of the Provision and Use of Work Equipment Regulations 1998 and Approved Code of Practice, and COSHH
- ▶ Details of accident rates and underlying causes
- ▶ Principles of safe working practices and update on guarding systems
- ▶ Safety awareness on the range of work undertaken, including guard setting, safety procedures and use of jigs where appropriate
- ▶ Use of safety equipment including push sticks, push blocks etc.
- ▶ Saw blade/cutter geometry and use of different types of blades
- ▶ Dust extraction, PPE and safe working practices in the workshop
- ▶ Implications of COSHH and new noise regulations
- ▶ Accident and Injury records (most dangerous machines and vulnerable people)
- ▶ Legislation: Health & Safety at Work act 1974, 6 Pack, PUWER, Woodworking ACOP, and reference to braking, tooling and training, COSHH and noise regulations
- ▶ Workshop hazards, safe working practices, training requirements and maintenance
- ▶ Responsibilities; how they are delegated
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Handouts covering all information will be distributed during the course, and a certificate of attendance will be sent to each delegate on successful completion.



# MANAGING WOOD DUST

## AIM

This one day course presents an authoritative and up to date coverage of the practicalities of managing the risks from wood dust in small workshops.

It looks initially at the legal framework to form the basis of compliance and from this develops a set of principles and practical techniques aimed at the reduction of airborne wood dust.

Included in these can be extraction and other engineering methodologies which can be applied in a cost effective manner to delegates workplaces to minimise the risks from wood dust particles.

Throughout the day the emphasis is on creating an understanding of the causes of wood dust which will subsequently allow an informed selection of dust minimising techniques.

Reducing the hazards at source is a key element of health and safety practice/policy. The aim of the course is to show cost effective methods of achieving it.

## WHO SHOULD ATTEND

The course is designed for those who work with wood and wood based materials in small workshops, those who manage or supervise such environments and those who carry any responsibility for health and safety in these workplaces.

## CONTENT

- ▶ The hazards of wood dust in small workshops
- ▶ Legal compliance, and requirements to maintain a safe working environment
- ▶ A methodology to systematically analyse existing equipment and produce a dust reduction strategy
- ▶ Optimisation techniques for extraction systems
- ▶ Additional measures to reduce dust creation
- ▶ The cost effective approach to reducing risk from wood dust

# PORTABLE POWER TOOLS

## AIM

This course aims to create a detailed understanding of the wide-ranging hazards and risks associated with the use of portable power tools in woodworking. From this will be developed a systematic practical approach to minimising those risks in an area of woodworking which is often largely ignored from the safety viewpoint. Regulatory compliance, including pending new legislation, will be explained in straightforward terms and, importantly, the latest engineered systems and safety techniques will be amply reviewed. Electrical, pneumatic and cordless types will be covered.

## WHO SHOULD ATTEND

The course is for those who work with wood and wood-based materials using portable power tools both within the workshop and elsewhere in the workplace. Equally, it is for those who manage or supervise such environments and for those who carry any responsibility for health and safety in these workplaces.

## CONTENT

- ▶ Accidents – underlying causes and practical solutions
- ▶ Implications of the Work Equipment Regulations (PUWER) for using portable woodworking power tools
- ▶ Review of the new European directive on hand-arm and whole-body vibration
- ▶ Systematic safe working with portable power tools in woodworking
- ▶ Interactive group work developing techniques and systems
- ▶ Update on latest engineered safety systems, best practices and risk reduction strategies

**NOTE: Chainsaws and other power tools used in forestry and horticulture for primary cutting will not be covered in this course.**





## ABOUT US

Our Accreditations  
Specialist Facilities  
Legislation / Code of Practice



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