

Unit 29 Developing Skills in Using Fixed and Transportable Machinery

Unit code: A/503/5770

QCF Level: 3

Credit value: 5

Guided learning hours: 50

Unit aim and purpose

This unit enables learners to understand the safe maintenance and operation of fixed and transportable machinery. It gives learners the opportunity to develop skills in carrying out repairs safely and to specific requirements.

Learning outcomes and assessment criteria

In order to pass this unit, the evidence that the learner presents for assessment needs to demonstrate that they can meet all the learning outcomes for the unit. The assessment criteria determine the standard required to achieve the unit.

Learning outcomes	Assessment criteria
1 Understand how to maintain fixed and transportable power machinery and equipment	1.1 summarise manufacturers' literature for servicing and maintaining selected power machinery and equipment 1.2 evaluate regulations for the use of selected power machinery and equipment 1.3 explain good practice in maintaining selected power machinery and equipment
2 Be able to maintain fixed and transportable power machinery and equipment safely	2.1 inspect machinery against manufacturers' requirements 2.2 repair defective machinery according to procedures and operating instructions 2.3 maintain machinery in accordance with organisational procedures, current legislation and manufacturer's operating

	instructions
3 Understand how to use machinery efficiently and safely	3.1 describe requirements for safe tooling 3.2 explain the correct methods of changing tooling 3.3 explain potential hazards in using equipment 3.4 explain the importance of the role of teamwork when using machinery 3.5 explain the importance of reading and understanding manufacturers' operating instructions
4. Be able to use machinery efficiently and safely	4.1 set machinery safely in line with manufacturers' instructions 4.2 produce work safely and efficiently in line with manufacturers' instructions

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THIS IS AN ACCREDITED SPECIFICATION AND CAN BE USED FOR TEACHING AND ASSESSMENT

Unit content

1 Understand how to maintain fixed and transportable power machinery and equipment

Machinery: circular saw; planers; thicknessers; bandsaws; morticers; ancillary equipment

Manufacturers' literature: manufacturer's literature for servicing and maintenance standards

Regulations: applicable to use of machinery

Good practice: organisational procedure; current legislation; manufacturers' operating instructions

2 Be able to maintain fixed and transportable power machinery and equipment safely

Inspect machinery: identifying faults (damage, DIY repair, missing riving knife, badly fitting or missing guards, poor wiring, lack of maintenance, inadequate or blocked extraction, unsafe work area)

Repair defective machinery: repair damage; work procedures for referring damage to authorised person

Maintain machinery: knives and blades (replace, sharpen); lubrication; correct tensions

3 Understand how to use machinery efficiently and safely

Requirements for safe tooling: for bandsaw; circular saw blades; knives; bits; blades; morticer chisels

Importance of teamwork: the need to cooperate with others in team to lift and cut large or heavy sections of material on machinery

4. Be able to use machinery efficiently and safely

Set machinery: circular saws; planers; thicknessers; bandsaws; morticers; taking information from drawings, rods, cutting lists

Produce work: cut materials to size and shape; plane timber; mortice timber; cutting materials in safe and efficient manner; use of safety aids (push stick, spike, push block, supports, autofeed, tables); use of guards inherent to machinery being used

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