

**-SQA-SCOTTISH QUALIFICATIONS AUTHORITY**

**Hanover House  
24 Douglas Street  
GLASGOW G2 7NG**

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**NATIONAL CERTIFICATE MODULE DESCRIPTOR**

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**-Module Number-** 0075270 **-Session-1987-88**  
**-Superclass-** TG

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**-Title-** CEILING FIXING: TOOLS AND EQUIPMENT

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**-DESCRIPTION-**

Type and Purpose A specialist module to develop the students skills and knowledge in the use and maintenance of tools and equipment.

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Cartridge operated tools should be operated in accordance with Building Advisory Service recommended actions. Students should not use cartridge operated tools under the age of 18 without continuous supervision.

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Preferred Entry Level No formal entry requirements

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Learning Outcomes The student should:

1. select and use hand tools for marking, measuring, cutting, and fixing, metal grid work, timber framing and finishing materials;
2. select and use, an electric drill for drilling various materials;
3. select and use, under supervision, cartridge operated tools for implanting fixings.
4. transfer datums and levels to surfaces and positions.

Content/ Context	<p>5. clean, maintain and secure tools and equipment. Safety regulations and safe working practices and procedures should be observed at all times.</p> <p><u>Corresponding to Learning Outcomes 1-5:</u></p> <p>1. Selection of specific tools for cutting and shaping metal, timber framing and finishing materials;</p> <p>2&amp;3 Selection of specific equipment for implanting specified fixings in metal, brickwork, concrete and timber. Comply with Electrical Safety Regulations.</p> <p>4. Use a spirit level, water level, laser level, and optical box level to transfer datums, mark finished ceiling level, level gridwork and check level of ceiling on completion.</p> <p>5. Need for constant maintenance and inspection of tools and equipment. Need to comply with Electrical Safety Regulations.</p>
Suggested Learning and Teaching Approaches	<p>Use of exemplar kit of tools and items of equipment to familiarise the trainee with the uses and capabilities of them.</p> <p>Demonstration by the lecturer of the selection and use of tools and equipment for specific purposes.</p> <p>Students should only use cartridges operated tools under close supervision.</p> <p>Class discussion should be encouraged to enable the trainee to fully understand the need for accuracy and safe working practices.</p>
Assessment Procedures	<p>Acceptable performance in the module will be satisfactory achievement of the performance criteria specified for each Learning Outcome.</p> <p>The following abbreviations are used below:</p> <p style="padding-left: 40px;">LO Learning Outcome IA Instrument of Assessment PC Performance Criteria</p> <p>LO1 IA Practical exercise and observation checklist.</p> <p>The student is required to select tools and equipment including identifying grinding and sharpening angles for planes, chisels and drills, correct grade of grindstone and oilstone.</p>

The student is required to use these tools on metal gridwork, timber framing and finishes.

PC Appropriate selection of tools and competent use.

LO2 IA Practical exercise and observation checklist.

The student is required to select and use an electric drill for drilling various surfaces to include reinforced concrete, steel, brickwork and timber.

The student is further required to check electrical connections and electrical leads for damage.

PC Equipment should be appropriately selected, all checking procedures should be carried out in accordance with safety procedures and all equipment should be correctly used.

LO3 IA Practical exercise and observation checklist.

The student is required to select and use, under supervision, cartridge operated tools for implanting fixings in brick, reinforced concrete and steel and identify and select the strength of cartridge.

PC Equipment should be appropriately selected, all checking procedures should be carried out in accordance with safety procedures and all equipment should be correctly used.

LO4 IA Practical exercise and observation checklist.

The student is required to:

- (a) test, adjust and use a spirit level;
- (b) test and use a water level;
- (c) set up and use laser equipment and check for correct function.

PC All equipment to be correctly and appropriately used.

LO5 IA Practical exercise and observation checklist.

The student is required to clean, maintain and secure:

- (a) personal tool kit;

- (b) power tools to include electric drill, percussion hammer and cartridge operated tools;
- (c) levelling equipment to include spirit level, water level, Cowley level and laser level.

PC Personal tool kit should be kept clean, sharp and ready for use. Power tools and levelling equipment should be kept clean and maintained to manufacturers' instructions.

Tool kit, power tools, and levelling equipment to be stored tidily in a secure environment.

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