

# Unit 107: Clinical Engineering Workshop Skills

<b>Level:</b>	<b>4</b>
<b>Unit type:</b>	<b>Optional (Equipment Management and Clinical Engineering)</b>
<b>Credit value:</b>	<b>4</b>
<b>Guided learning hours:</b>	<b>32</b>

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## Unit summary

In this unit, you will develop a range of engineering workshop knowledge and skills. You will be expected to develop your professional practice as you build your competence in the workplace.

## Unit assessment requirements

There are no specific assessment requirements for this unit. Please refer to the assessment strategy in *Annexe B*.

## Additional information

All procedures must be undertaken in accordance with Standard Operating Procedures (SOPs) and legislation.

AC5.1: to include cables, switches, sensors, hoses, batteries, valves, pumps.

## Learning outcomes and assessment

To pass this unit, learners need to demonstrate that they can meet all the learning outcomes for the unit. The assessment criteria outline the requirements that the learner is expected to meet **in own area of work and in accordance with Standard Operating Procedures (SOPs)** to achieve the learning outcomes and the unit.

Learning outcomes		Assessment criteria		Evidence type	Portfolio reference	Date
1	Understand the practice of engineering in the clinical context, including good workshop practice requirements and undertaking workshop skills	1.1	Explain the range of workshop skills required in own area of work			
		1.2	Explain the health and safety requirements of working in a workshop			
		1.3	Explain how good workshop practice supports health, safety and quality in a workshop			
		1.4	Explain the management of a workshop			
		1.5	Explain the practice of engineering and the vocabulary typically used in engineering			
		1.6	Describe the scope of practice of clinical engineering			
		1.7	Explain how to manage own time and prioritisation of own workload effectively			

Learning outcomes		Assessment criteria		Evidence type	Portfolio reference	Date
2	Be able to use workshop tools	2.1	Use hand tools to perform routine tasks			
		2.2	Use power tools to perform routine tasks			
		2.3	Explain examples of use of common power tools and the associated risks			
3	Be able to perform soldering techniques	3.1	Perform basic soldering techniques			
		3.2	Perform flow/surface mount soldering techniques			
4	Be able to use test equipment	4.1	Use test equipment to measure current, voltage and resistance			
		4.2	Use bench test equipment, such as oscilloscopes, signal generators, medical equipment simulators, flow and pressure measuring devices			
		4.3	Use power supplies			
		4.4	Use equipment for assessing the electrical safety of equipment			
5	Be able to remove and replace/refit a range of components	5.1	Remove, replace or refit a range of components			

Learner name: \_\_\_\_\_

Date: \_\_\_\_\_

Learner signature: \_\_\_\_\_

Date: \_\_\_\_\_

Assessor signature: \_\_\_\_\_

Date: \_\_\_\_\_

Internal verifier signature: \_\_\_\_\_

Date: \_\_\_\_\_

*(if sampled)*