

# Unit 45: Testing, Maintenance and Breakdown Management of Decontamination Equipment

<b>Level:</b>	<b>4</b>
<b>Unit type:</b>	<b>Optional (Decontamination Science)</b>
<b>Credit value:</b>	<b>5</b>
<b>Guided learning hours:</b>	<b>40</b>

---

## Unit summary

In this unit, you will perform periodic testing and planned maintenance of decontamination equipment. You will also gain an understanding of the requirements for quarterly and annual equipment testing within a decontamination science setting. You will gain the knowledge and skills necessary to ensure all the testing and maintenance carried out is in compliance with national and internal guidance and the manufacturer's instructions for the device. You will be expected to build your patient-centred professional practice and practise safely 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 and the requirements of own area of practice.

AC1.1 includes:

- commissioning
- validation
- testing
- planned maintenance
- breakdown/repair.

AC1.3 includes:

- range of equipment
  - sterilisers
  - washer/disinfector
  - endoscope washer/disinfectors
  - ultrasonic washers
  - endoscope storage systems
  - heat sealers
  - fume cabinets
  - insulation testing machines
  - automated flushing systems
- the national/international guidance/standards/legislation for each type of equipment.

AC2.1 includes tests on each of the types of equipment listed below:

- sterilisers
- washer/disinfector
- endoscope washer/disinfectors
- ultrasonic washers
- endoscope storage systems
- heat sealers
- fume cabinets
- insulation testing machines.

AC2.4 includes on each of the types of equipment listed below:

- sterilisers
- washer/disinfector
- endoscope washer/disinfectors
- ultrasonic washers
- endoscope storage systems
- heat sealers
- fume cabinets
- insulation testing machines.

AC3.1 includes on each of the types of equipment listed below:

- sterilisers
- washer/disinfector
- endoscope washer/disinfectors
- ultrasonic washers
- endoscope storage systems
- heat sealers
- fume cabinets
- insulation testing machines.

AC3.1 and AC3.2 where learners are not trained, or unable to complete weekly tests unsupervised, the performance of the weekly tests and completion of documentation should be done under supervision.

AC3.4 includes on each of the types of equipment listed below:

- sterilisers
- washer/disinfector
- endoscope washer/disinfectors
- ultrasonic washers
- endoscope storage systems
- heat sealers
- fume cabinets
- insulation testing machines.

## Learning outcomes and assessment criteria

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 principles and practice of daily and weekly testing of decontamination equipment	1.1	Define medical device processing equipment maintenance and testing terms			
		1.2	Explain the purpose and importance of planned maintenance of decontamination equipment			
		1.3	Identify all daily and weekly tests for all equipment as detailed in manufacturer's instructions			
		1.4	Explain the importance of having a schedule of all planned testing and maintenance and what considerations should be taken into account when planning the schedule for the year			
		1.5	Discuss the potential impact of equipment failure on service delivery			
		1.6	Explain who should be notified of equipment failure, most crucially where it will impact on service delivery			

Learning outcomes		Assessment criteria		Evidence type	Portfolio reference	Date
2	Be able to perform daily testing and housekeeping of equipment to ensure that it is fit for safe use	2.1	Perform the daily tests on equipment used within decontamination science services			
		2.2	Complete all the documentation required for the recording of the daily tests			
		2.3	Review all daily test documentation and highlight areas of concern or gaps to an appropriate senior colleague			
		2.4	Perform all the daily housekeeping and complete all the documentation required for the recording of the tests			
		2.5	Review all documentation and highlight areas of concern or gaps to an appropriate senior colleague			
3	Be able to perform weekly testing of equipment to ensure that it is fit for safe use	3.1	Perform the weekly tests on equipment used within decontamination science services			
		3.2	Complete all the documentation required for the recording of the weekly tests			
		3.3	Review all weekly test documentation and highlight areas of concern or gaps to an appropriate senior colleague			
		3.4	Perform all the weekly housekeeping on equipment used within decontamination science services			

Learning outcomes		Assessment criteria		Evidence type	Portfolio reference	Date
4	Record all testing data in the department information system	4.1	Record all testing data into department information system			
		4.2	Discuss the reasons for retaining test results into the information system including retention period			
		4.3	Review test data within the department information system to improve performance or reduce equipment downtime			
5	Perform the acceptance procedure for returning equipment back to service after successful testing/planned maintenance	5.1	Review the test data for accuracy and completeness			
		5.2	Identify the appropriate person to sign off report before equipment is placed back into service			
		5.3	Explain the checks that need to be made prior to allowing the equipment to be used for processing of medical devices			
		5.4	Discuss any follow-up actions required after the equipment is returned to service			
		5.5	Review any outstanding areas of concern identified by yourself and others to see they have been completed			

Learning outcomes		Assessment criteria		Evidence type	Portfolio reference	Date
6	Understand when to notify the appropriate personnel in the event of an equipment failure	6.1	Explain the method used to identify the appropriate personnel that need to be notified to resolve the failure			
		6.2	Discuss the communication process so that updated information is provided regarding the progress of the repair and potential downtime of equipment			
		6.3	Explain business continuity arrangements and implementation process			
		6.4	Discuss the limits of your authority			
		6.5	Identify occasions when it is appropriate to notify a senior colleague			
		6.6	Discuss the information services users would need to receive in the event of a significant breakdown			

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

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

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

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

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

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

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

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

*(if sampled)*