

Unit 42: Cleaning and Disinfection of Medical Devices: Automated Processes

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

Unit summary

This unit provides you with the knowledge and skills to enable you to process reusable medical equipment by the various automated methods that are available. It will enable you to identify the differences between the methods and their advantages and disadvantages. This knowledge will be extended and applied to specific processing methods as you build your professional practice and practice 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 the Standard Operating Procedures (SOPs) in own area of work.

AC1.3 includes:

- effectiveness
- reproducibility
- external influences
- consistency
- time efficient.

AC3.3 includes:

- effectiveness
- reproducibility
- external influences
- consistency
- time efficient.

AC4.2 includes:

- pre-wash
- main wash
- rinse
- disinfection
- drying.

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) and Quality Management Systems** to achieve the learning outcomes and the unit.

Learning outcomes		Assessment criteria		Evidence type	Portfolio reference	Date
1	Understand the principles and practice of processing reusable medical devices by an ultrasonic machine	1.1	Evaluate the Standard Operating Procedure for processing of all reusable medical devices by an ultrasonic machine method			
		1.2	Describe the reasons why this process would be performed, including manufacturers' instructions for use			
		1.3	Explain the advantages and disadvantages of the ultrasonic method			

Learning outcomes		Assessment criteria		Evidence type	Portfolio reference	Date
2	Be able to perform the processing of reusable medical devices by an ultrasonic machine	2.1	Perform the cleaning process of a medical device using the ultrasonic process			
		2.2	Perform the disinfection process of a medical device after ultrasonic process if not included in the automated ultrasonic machine cycle			
		2.3	Describe the personal protective equipment to be worn during this process, including when to change it during the process			
		2.4	Explain what critical parameters must be met during the cleaning phase to complete an effective process, e.g., water temperature, detergent			
		2.5	Perform the process of transferring the device to the inspection and packing room to prevent cross-contamination			
		2.6	Explain how an ultrasonic machine works, including cavitation			
		2.7	Describe the different phases of an ultrasonic cycle			
		2.8	Describe the cross-infection risks to staff and the device			

Learning outcomes		Assessment criteria		Evidence type	Portfolio reference	Date
3	Understand the principles and practice of processing reusable medical devices by the validated automated process clean	3.1	Evaluate the Standard Operating Procedure for processing of all reusable medical devices by the automated cleaning process method			
		3.2	Describe the reasons why the automated cleaning process method would be performed, including manufacturers' instructions for use			
		3.3	Explain the advantages and disadvantages of the automated cleaning process method			
4	Be able to perform the processing of reusable medical devices by the validated automated process	4.1	Perform the cleaning process of a medical device using the automated process			
		4.2	Explain what critical parameters must be met during each stage of the validated automated process in a washer disinfectant			
		4.3	Describe the personal protective equipment to be worn during this process, including when to change it during the process			
		4.4	Describe the process of transferring the device to the Inspection and Packing room to prevent cross-contamination			
		4.5	Describe the cross-infection risks to staff and the device			

Learning outcomes		Assessment criteria		Evidence type	Portfolio reference	Date
5	Be able to record all tasks in the departmental information system	5.1	Record the task completed into the departmental information system			
		5.2	Recover information from the information system of previously processed devices using this method			
		5.3	Explain the recording system of the processing equipment and how it monitors the process			
6	Understand the importance and function of an Independent Monitoring System	6.1	Describe the function of an Independent Monitoring System			
		6.2	Explain the critical parameters that the Independent Monitoring System must monitor			

Learner name: _____

Date: _____

Learner signature: _____

Date: _____

Assessor signature: _____

Date: _____

Internal verifier signature: _____

Date: _____

(if sampled)