



Australian Government

**HLTSTE010 Disinfect reusable medical
devices**

HLTSTE010 Disinfect reusable medical devices

Modification History

Release	Comments
1	This unit of competency was first released in HLT Health Release 11.0.

Application

This unit describes the skills and knowledge required to follow procedures to safely undertake the disinfection process, and complete quality checks and documentation for reusable medical devices and other equipment.

This unit applies to individuals working under general supervision and within established procedures in health and non-health facilities.

The skills in this unit must be applied in accordance with current Commonwealth and State/Territory legislation, Australian Standards and industry codes of practice.

Licensing/Regulatory Information

No licensing, legislative or certification requirements apply to this unit at the time of publication.

Pre-requisite unit(s)

No pre-requisite units

Competency field(s)

N/A

Unit sector(s)

Sterile Medical Equipment

Elements and Performance Criteria

Element	Performance criteria
<i>Elements define the essential outcomes of a unit of competency</i>	<i>The Performance Criteria specify the level of performance required to demonstrate achievement of the Element</i>

<p>1. Prepare reusable medical devices for disinfection</p>	<p>1.1 Prepare reusable medical devices for disinfection according to work health and safety, infection prevention and control and organisational procedures</p> <p>1.2 Select and use personal protection equipment (PPE) according to organisational procedures</p> <p>1.3 Select disinfection equipment in accordance with Spaulding classification and manufacturer's instructions for use</p> <p>1.4 Test functionality and operate disinfection equipment according to manufacturer's instructions for use</p> <p>1.5 Clean reusable medical devices prior to disinfection</p> <p>1.6 Disassemble reusable medical devices prior to disinfection according to manufacturer's instructions for use</p>
<p>2. Load and operate disinfection system</p>	<p>2.1 Identify and monitor disinfection process according to manufacturer's instructions for use</p> <p>2.2 Select and handle chemicals in accordance with regulatory requirements, manufacturer's instructions for use, safe manual handling techniques and safety data sheets</p> <p>2.3 Transport chemicals in accordance with regulatory requirements, manufacturer's instructions for use, safe manual handling techniques and safety data sheets</p> <p>2.4 Store chemicals in accordance with regulatory requirements, manufacturer's instructions for use, safe manual handling techniques and safety data sheets</p> <p>2.5 Use chemicals in accordance with regulatory requirements, manufacturer's instructions for use, safe manual handling techniques and safety data sheets</p> <p>2.6 Select disinfection system cycle and complete disinfection process based on product family according to Standard, manufacturer's instructions for use and organisational procedures</p> <p>2.7 Monitor and report hazards in disinfection process to designated personnel</p>
<p>3. Unload and release disinfection process</p>	<p>3.1 Remove load on completion of cycle according to organisational procedures</p> <p>3.2 Verify process parameters and monitoring indicator results for disinfection process</p> <p>3.3 Complete cycle documentation according to organisational procedures</p> <p>3.4 Verify and record disinfection processes to confirm cycle records conform to process specifications and traceability</p>

	<p>requirements according to Standard, manufacturer's instructions for use and organisational procedures</p> <p>3.5 Release load according to Standard and organisational procedures</p>
4. Monitor and maintain quality of disinfection process	<p>4.1 Monitor and respond to routine problems according to Standard, manufacturer's instructions for use and organisational procedures</p> <p>4.2 Monitor disinfection process according to Standards and manufacturer's instructions for use</p> <p>4.3 Monitor water quality according to Standards, manufacturer's instructions for use and organisational procedures</p> <p>4.4 Document and report non-compliance in the disinfection process and action according to organisational procedures</p>

Foundation skills

The foundation skills essential to performance of this unit, but not explicit in the performance criteria are listed here, along with a brief context statement.

Skills	Description
Reading skills to:	<ul style="list-style-type: none"> interpret organisational policies and procedures, technical safety data sheets, manufacturer's instructions, quality management guidelines and Standards. interpret unfamiliar complex chemical disinfectant information.
Numeracy skills to:	<ul style="list-style-type: none"> calculate precise chemical concentrations for manual disinfection. Interpret temperature and time against specified process benchmarks.

Digital literacy outcomes are included in the Foundation Skills Companion Volume.

Range of conditions

N/A

Assessment Requirements for HLTSTE010 Disinfect reusable medical devices

Performance Evidence

The candidate must show evidence of the ability to complete tasks outlined in elements and performance criteria of this unit, manage tasks and manage contingencies in the context of the job role.

For each of the cycles, there must be evidence that the candidate has:

- followed established organisational procedures, manufacturer's instructions for use and Standard for the disinfection of 3 different types of reusable medical devices across 3 separate occasions, 9 devices in total
- operated and monitored disinfection systems, including selection of 3 different disinfectant types
- identified and reported routine process and maintenance problems and variations
- documented tests for each of the 9 cycles.

Knowledge Evidence

The candidate must be able to demonstrate essential knowledge required to effectively complete tasks outlined in elements and performance criteria of this unit, manage tasks and manage contingencies in the context of the work role. This includes knowledge of:

- the importance of cleaning prior to disinfection
- impact of high-level disinfection in patient safety, and the implications of negligence
- the requirements of AS5369 for disinfection
- critical parameters for disinfection, including:
 - time
 - temperature
 - chemical concentration
- documentation requirements for traceability in the event of a process failure
- levels of disinfection and its application for reprocessing different reusable medical device
- disinfection systems, including:
 - manual disinfection
 - automated disinfection
 - thermal disinfection
 - chemical disinfection
 - automatic endoscope reprocessors

- other disinfection systems
- reprocessing of endoscopes including the Gastroenterological Nurses College Australia (GENCA) Guidelines and the fundamental knowledge of microbiological surveillance requirements
- key aspects of high-level disinfectants, including:
 - terminology
 - reusable medical devices requiring disinfection
- Spaulding's classification
 - critical
 - semi critical
 - non-critical
- load release criteria for disinfected reusable medical devices
- regulatory requirements, safety data sheets and manufacturer's instructions for use for chemicals, including:
 - cleaning agents and disinfectants
- routine monitoring and documentation of the disinfection process
- water quality monitoring process
- storage requirements for reusable medical devices according to manufacturer's instructions for use and organisational procedures
- prevention of recontamination of disinfected reusable medical devices and other devices
- safe work practices, including:
 - fume extraction devices
 - spill kit
 - leak testing
 - infection prevention and control principles
 - microbiological surveillance
 - personal protective equipment
 - maintain integrity of disinfected reusable medical devices
- identify risk factors of manual handling tasks involved, including:
 - relevant parameters, specific system controls and monitoring indicators

Assessment Conditions

Skills must have been demonstrated in the workplace or in a simulated environment that reflects workplace conditions. The following conditions must be met for this unit:

- use of suitable facilities, equipment and resources, including:
 - AS5369
 - PPE
 - disinfection equipment and accessories
 - reusable medical devices requiring disinfection
 - manufacturer’s instructions for use
- modelling of industry operating conditions, including:
 - requirements for the cleaning process prior to disinfection
 - presence of situations requiring problem-solving.

Assessors must satisfy the Standards for Registered Training Organisations (RTOs)/AQF mandatory competency requirements for assessors.

Mandatory Workplace Requirements

Assessment of performance evidence may be in a workplace setting or an environment that accurately represents a real workplace.

Unit Mapping Information

Previous Code and Title	Equivalence	Comments
HLTSTE006 Chemically disinfect reusable medical devices	Equivalent	Significant changes to elements and performance criteria. Minor changes to performance evidence and knowledge evidence.

Links

Companion volumes, including implementation guides, are found on the national training register - <https://training.gov.au/training/details/HLT>.