



Australian Government

HLTANA002 Monitor clients during anaesthesia

Release: 1

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Modification History

Release	Comments
Release 1	This version was released in <i>HLT Health Training Package release 2.0</i> and meets the requirements of the 2012 Standards for Training Packages. Significant changes to the elements and performance criteria. New evidence requirements for assessment, including volume and frequency requirements. Significant change to knowledge evidence - incorporates content from multiple units, including HLTAN403D/HLTAN404D.

Application

This unit describes the skills and knowledge required to observe and monitor clients, taking a broad range of clinical tests and measurements.

The unit applies to anaesthetic technicians working under the direction of, and in consultation with, an anaesthetist in any hospital or day surgery setting.

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

Elements and Performance Criteria

ELEMENT

PERFORMANCE CRITERIA

Elements define the essential outcomes

Performance criteria describe the performance needed to demonstrate achievement of the element

1. Observe client

- 1.1 Read and interpret information in client records
- 1.2 Check client's physiological parameters as directed
- 1.3 Identify deviations from acceptable limits, check equipment for true reading and report to the anaesthetist
- 1.4 Identify and respond to signs of client discomfort, distress or adverse reaction within role responsibility

2. Take measurements and

- 2.1 Select and prepare equipment suited to test or

ELEMENT	PERFORMANCE CRITERIA
<i>Elements define the essential outcomes</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element</i>
samples	measurement being conducted
	2.2 Prepare client according to requirements of test or measurement
	2.3 Maintain aseptic technique during collection of body fluid for analysis
	2.4 Accurately measure client's fluid intake and output/loss
	2.5 Perform measurement or take samples in accordance with manufacturer's guidelines and organisation policies and procedures
	2.6 Determine quality of measurement or sample based on established procedures
3. Report measurements	3.1 Read test results and report to the anaesthetist
	3.2 Promptly identify and report abnormal findings to the anaesthetist
	3.3 Document results of measurement or ensure documentation is completed

Foundation Skills

The Foundation Skills describe those required skills (employability skills, language, literacy and numeracy) that are essential to performance.

Foundation skills essential to performance are explicit in the performance criteria of this unit of competency.

Unit Mapping Information

No equivalent unit.

Links

Companion Volume implementation guides are found in VETNet -

<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=ced1390f-48d9-4ab0-bd50-b015e5485705>

Assessment Requirements for HLTANA002 Monitor clients during anaesthesia

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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. There must be evidence that the candidate has:

- provided monitoring assistance to an anaesthetist during at least 5 procedures
- followed established technical and infection control procedures to undertake each of the following clinical measurements and tests at least twice:
 - arterial blood gases
 - blood pressure
 - blood glucose level
 - circulation
 - electrocardiography (ECG)
 - 12 lead ECG
 - haemoglobin
 - inspired/expired gases (Functional inspiratory oxygen (FiO₂), Functional expiratory oxygen (FeO₂), end-tidal carbon dioxide (ETCO₂), tidal volume (TV), inspiratory pressure, minute volume (MV), respiratory rate (RR), minimal alveolar concentration (MAC)
 - level of consciousness
 - neuromuscular function
 - oxygenation (oximetry, FiO₂, partial pressure oxygen (PaO₂))
 - pulse
 - respiration

- temperature
- fluid balance

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:

- legal and ethical considerations (national, state/territory) for client monitoring, and how these are applied in organisations:
 - codes of practice
 - duty of care
 - infection prevention and control
 - informed consent
 - mandatory reporting
 - manufacturer's guidelines
 - privacy, confidentiality and disclosure
 - records management
 - rights and responsibilities of workers, employers and clients
 - work role boundaries – responsibilities and limitations
 - work health and safety
- clinical measurements undertaken by anaesthetic technicians:
 - purpose
 - how they are undertaken
 - normal results and variations from normal
 - implications of abnormal results for all of the following:
 - arterial blood gases
 - blood pressure
 - blood glucose level
 - peripheral perfusion/skin colour
 - haemodynamic (non-invasive blood pressure, invasive blood pressure, central venous pressure, pulmonary artery wedge pressure, pulse, heart rate, cardiac output)
 - dermatomes
 - ECG
 - 12 lead ECG
 - haemoglobin
 - blood tests samples for urea and electrolytes (U&E), coagulation profile (coags), full blood count (FBC),
 - inspired/expired gases (FiO₂, FeO₂, ETCO₂, TV, insp pressure, MV, RR, MAC)
 - level of consciousness clinical observation & entropy/bispectral index monitoring)

- neuromuscular function
- oxygenation (oximetry, FiO₂, PaO₂)
- pain assessment
- temperature
- acid base balance
- heart & lung sounds
- fluid balance monitoring requirements, including:
 - urine
 - gastrointestinal
 - blood
 - irrigation
 - intravenous
 - intra-arterial
- clinical documentation requirements
- principles of biomedical science for anaesthesia:
 - electrical potential
 - fibreoptics
 - hydrostatic/atmospheric/oncotic pressure
 - oscillometry
 - photometrics/photoelectrics
 - thermistor
 - transducers

Assessment Conditions

Skills must have been demonstrated in the workplace with the addition of simulations and scenarios where the full range of contexts and situations have not been provided in the workplace. The following conditions must be met for this unit:

- use of suitable facilities, equipment and resources, including those required by tests specified in performance evidence
- modelling of industry operating conditions, including presence of situations requiring problem solving in non-routine situations

Assessors must satisfy the Standards for Registered Training Organisations (RTOs) 2015/AQTF mandatory competency requirements for assessors.

Links

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<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=ced1390f-48d9-4ab0-bd50-b015e5485705>