



Australian Government

HLTENN040 Administer and monitor medicines and intravenous therapy

Release: 2

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Modification History

Release	Comments
Release 2	Release 2 HLTENN040 Administer and monitor medicines and intravenous therapy supersedes and is equivalent to Release 1 HLTENN040 Administer and monitor medicines and intravenous therapy. Updated: Mapping details and minor corrections.
Release 1	HLTENN040 Administer and monitor medicines and intravenous therapy supersedes and is not equivalent to HLTENN007 Administer and monitor medicines and intravenous therapy.

Application

This unit describes the performance outcomes, skills and knowledge required to administer and monitor medicine and intravenous (IV) therapy including calculating dosage requirements, reading and applying written instructions from an authorised prescriber, assessing the person for medicine effectiveness and side effects, and responding to an allergic pharmacological reaction.

This unit applies to enrolled nursing work carried out in consultation and collaboration with registered nurses and under supervisory arrangements aligned to the Nursing and Midwifery Board of Australia (NMBA) regulatory authority legislative requirements.

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

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

Pre-requisite Unit

Nil

Competency Field

Enrolled Nursing

Unit Sector

Enrolled Nursing

Elements and Performance Criteria

ELEMENTS

Elements describe the essential outcomes

1. Minimise potential risk to ensure safe administration of medicine.

2. Prepare for medicine administration and infusion of IV fluids.

3. Administer and store medicine.

PERFORMANCE CRITERIA

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

- 1.1. Refer to drugs and poisons schedules and classifications as determined by law.
- 1.2. Identify indications for prescribed medicine and intravenous (IV) therapy.
- 1.3. Identify pharmacology and substance incompatibilities in relation to specific situations involving medicine administration, blood and blood products.
- 1.4. Evaluate the effect of commonly used medicine and IV fluids on the body before medicine administration and IV infusion.
- 1.5. Refer to medical history records to identify documented allergies and contraindications.
- 2.1. Explain the process of medicine administration and IV fluid infusion to the person, confirm their understanding and obtain consent.
- 2.2. Identify correct administration route and site for medicine and IV fluid to be administered and position the person.
- 2.3. Calculate accurate medicine dosage and IV fluid infusion rate for administration of drugs.
- 2.4. Prepare medicine in accordance with legislative and jurisdictional requirements and organisational policies and procedures.
- 2.5. Identify medicine administration techniques and precautions specific to the person's situation and as per medicine orders.
- 2.6. Prepare blood and blood products for blood transfusions according to organisational policies and procedures.
- 2.7. Assess intravenous access site and line for abnormalities and refer to registered nurse and treating team as required in accordance with the National Safety and Quality Health Service (NSQHS) Standards.
- 3.1. Administer medicine and IV fluid to the person applying the Rights of Medication Administration and in accordance with jurisdictional and legislative requirements, organisational policies and procedures and professional practice standards.

- 3.2. Report a person's refusal of medicine, IV therapy and incomplete medicine and IV therapy administration to the supervising registered nurse.
 - 3.3. Ensure medicine and blood and blood products are stored, handled and disposed of according to legislation, organisational policies and procedures and manufacturer instructions.
- 4. Monitor and evaluate a person's response to administered medicine, IV fluids and blood and blood products.
 - 4.1. Identify, monitor, document and report acute and delayed adverse reactions of the person to administered medicine, IV fluids, blood and blood products.
 - 4.2. Implement emergency actions in response to identified adverse event.
 - 4.3. Monitor and evaluate IV cannula according to organisational policies and procedures.
 - 4.4. Provide information to the person, families or carer relating to administration of medicines including possible side effects.
- 5. Assess effectiveness of pain-relieving medicine.
 - 5.1. Undertake comprehensive pain assessment.
 - 5.2. Clarify location and nature of pain and discomfort, taking into account factors that influence person's perception of pain.
 - 5.3. Identify prescribed medicines and complementary strategies to alleviate pain and discomfort.
 - 5.4. Assess evaluate and document medicine effectiveness and undertake comprehensive pain assessment.

Foundation Skills

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

Unit Mapping Information

HLTENN040 Administer and monitor medicines and intravenous therapy supersedes and is not equivalent to HLTENN007 Administer and monitor medicines and intravenous therapy.

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 HLTENN040 Administer and monitor medicines and intravenous therapy

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Performance Evidence

Demonstrate evidence of the ability to complete tasks outlined in elements and performance criteria of this unit in the context of the job role, and:

- for two people:
 - reference medical history records to identify documented allergies and contraindications
 - use the Rights of Medication Administration and calculate medicine with 100% accuracy to administer medicines:
 - oral medicine including two in simulation and three in the workplace
 - sub-cutaneous injection including one in simulation and one in the workplace
 - intramuscular injection in simulation
 - peripheral IV injection including one in simulation and one in the workplace
 - prepare equipment for IV therapy and blood and blood products
 - monitor administration including assessing cannula site

The tasks must be undertaken in accordance with the Nursing and Midwifery Board of Australia (NMBA) professional practice standards, codes and guidelines.

Knowledge Evidence

Demonstrate knowledge required to complete tasks outlined in elements and performance criteria of this unit:

- legal requirements for practice parameters of enrolled nurse in relation to the administration and documentation of medicine, including legal requirements for each route of administration
- Australian Commission on Safety and Quality in Health Care (ACSQHC) National Standard Medication Charts
- legal and regulatory framework including Commonwealth and State/Territory drugs and poisons acts, regulations and codes
- pharmacology of medicine:
 - pharmacodynamics
 - pharmacokinetics
 - pharmacotherapeutics
 - therapeutic drug levels
 - anaphylactic reactions
 - adverse reactions
 - contraindications
 - precautions
 - side effects
- management of potential complications of blood transfusion
- safe transport, storage, handling, checking and disposal of blood and blood products
- Rights of Medication Administration requirements:
 - right medicine
 - right dose
 - right prescription
 - right route
 - right time
 - right person
 - right expiration date
 - right to refuse
 - right documentation
 - right response
 - right form
- high risk medicine as per the ACSQHC
- how medicine is administered via the following routes:
 - oral
 - sublingual and buccal
 - inhalation
 - subcutaneous
 - intramuscular
 - intravenous
 - enteral
 - intranasal

- ocular
- rectal
- transdermal
- vaginal
- aural
- IV medicine administration methods:
 - push
 - bolus
 - gravity
 - electronic infusion pump
 - secondary line
 - syringe driver
 - subcutaneous
- intravascular access devices:
 - central venous catheter (CVC)
 - peripherally inserted central catheter (PICC)
 - vascath
 - implanted venous port
 - Hickman
- access devices:
 - peripheral
 - central
 - percutaneous
 - subcutaneous
- patient-controlled analgesia (PCA)
- pharmacodynamic effects of medicine groups:

Anaesthetics	Anticonvulsants
Analgesia	Antidepressants
Antacids	Antidiarrheals
Antianginals	Antiemetics
Anxiolytics	Antifungals
Antiarrhythmics	Antihistamines
Antibiotics	Antihypertensives
Anticholinergics	Anti-inflammatory
Anticoagulants	
Antineoplastics	Hormones
Antiparkinsonian	Hypnotics, sedatives

Antipruritic	Hypoglycaemics
Antipsychotics	Insulin
Antiseptics	
Antiulcer	
Antivirals	
Beta-blockers	
Benzodiazepines	Electrolyte solutions
Bronchodilators	
Laxatives/aperients	Ophthalmic, otic
	Nasal medicine – nasopharyngeal medicine
Contraceptives	Diuretics
Corticosteroids	
Including narcotic analgesia	Vitamins

- techniques for calculating medicine dosages:
 - calculation formulae
 - ACSQHC tall man lettering
 - commonly used dose measurement:
 - microgram (microg, MICROg)
 - milligram (mg)
 - gram (g)
 - millilitre (mL)
 - litre (L)
 - millimole (mmol)
 - calculation of dosages of injectable drugs including liquid and solid unit dosages
 - flow rate:
 - drops per minute
 - millilitres per hour
 - paediatric dosage calculations including body weight, surface area and age-related dose reduction
 - geriatric dosage calculations including body weight, surface area and age
 - dose administration aids (DAAs) where dose is already calculated
- organisational policies and procedures for addressing medicine errors
- drugs commonly used for fluid and electrolyte imbalance:

- alkalisers
- diuretics
- electrolytes
- replacement solution.

Assessment Conditions

To be eligible to apply for registration as an enrolled nurse and to practice in Australia, each applicant must complete a Diploma of Nursing program accredited by the Australian Nursing and Midwifery Accreditation Council (ANMAC) and approved as ‘an approved program of study’ by the Nursing and Midwifery Board of Australia (NMBA) in accordance with the Enrolled Nurse Accreditation Standards.

For more detail visit <https://www.ahpra.gov.au>.

Skills must be demonstrated in the workplace or in a simulated environment as specified in the performance evidence that model industry operating conditions including access to real people for simulations and scenarios in enrolled nursing work.

Assessors must satisfy the Standards for Registered Training Organisations’ requirements for assessors.

Assessors must also hold current registration as a registered nurse with the Nursing and Midwifery Board of Australia (NMBA).

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