

ADEPT TRAINING

Student Course Outline

For

HLT41807 Certificate IV in Pathology

Qualification requirements	To be awarded a Certificate IV in Pathology, competency must be achieved in a total of 9 Units of competency comprised of:		
	<ul style="list-style-type: none"> • 3 compulsory units (C) • 6 elective units (E), including: 2 mandatory electives (ME) 		
Units of competency	Code	Title	Units Selected
Core	HLTHIR405A	Show leadership in health technical work	✓
	HLTHIR402B	Contribute to organisational effectiveness in the health industry	✓
	HLTIR506B	Implement and monitor compliance with legal and ethical requirements	✓
Mandatory Electives	HLTPAT410B	Collect pathology specimens other than blood for specialised testing	✓
	HLTPAT411B	Perform blood collection for specialised testing	✓
Electives	HLTCA402B	Perform holter monitoring	✓
	HLTPAT414B	Measure spirometry/flow volume loop	✓
	HLTPAT407B	Perform electrocardiography (ECG)	✓
	HLTAP301A	Recognise healthy body systems in a health care context	✓
A summary of the Employability Skills required for this qualification is listed at the end of this document.			



QUALIFICATION BEING SOUGHT	CERTIFICATE IV IN PATHOLOGY	NTIS CODE
		HLT41807

NOTE:

The qualification has 9 competency units required for award of this qualification, including:

- 3 compulsory units (C) and 6 elective units (E), includes: 2 mandatory electives (ME). A maximum of 2 units may be selected from other relevant Training Package units available at Certificate III (or higher).

Nominal Duration for this program is 282 hours including home study, work place clinical experience, assessment and the *classroom face-to-face* training is delivered over 8 days.

UNIT OF COMPETENCY (CORE)	Show leadership in health technical work (this represents 1 of 9 unit/s of competency towards the above qualification)	UNIT CODE: HLT41807
ELEMENTS of COMPETENCY		
1. Model performance <i>standards</i>		
2. Model ethical work practices		
3. Maintain professional <i>skills and knowledge</i>		
4. Manage work priorities		

The following are the Performance Criteria from the Health Training Package HLT07 which are aligned with the above Elements of Competency

PERFORMANCE CRITERIA	
1.1	Demonstrate compliance with relevant OH&S and organisation policies and procedures0
1.2	Ensure work is appropriately sequenced in accordance with organisation requirements
1.3	Coordinate own work effectively with work undertaken by others
1.4	Ensure work meets identified requirements
1.5	Respond to unplanned events or conditions in accordance with established procedures
2.1	Demonstrate compliance with processes to ensure confidentiality of client information is maintained
2.2	Follow up and rectify variations from agreed ethical practices
2.3	Model work practices that show respect for clients and others
2.4	Model ethical work practices which support a professional delivery of services
2.5	Encourage others to work in a way that reflects ethical work practices
3.1	Assess own skills and knowledge against identified work requirements to determine personal training needs
3.2	Respond to feedback on competence as a basis for identifying personal training needs in accordance with established procedures
3.3	Participate in professional development programs and associated development opportunities to enhance competence in line with organisation policies and procedures
4.1	Organise work priorities in accordance with organisation policies and procedures
4.2	Manage work effectively to achieve identified objectives
4.3	Use information technology to improve efficiency in accordance with organisation policies and procedures
4.4	Manage personal skills development in the workplace in line with organisation requirements
4.5	Monitor work standards and communicate work priorities and associated requirements to others

UNIT OF COMPETENCY (CORE)	Contribute to organisational effectiveness in the health industry (this represents 1 of 9 unit/s of competency towards the above qualification)	UNIT CODE: HLTHIR402B
ELEMENTS of COMPETENCY		
1. Promote ethical work practice		
2. Contribute to client and organisation outcomes		
3. Contribute to organisational improvements		

The following are the Performance Criteria from the Health Training Package HLT07 which are aligned with the above Elements of Competency

PERFORMANCE CRITERIA	
1.1	Ensure client confidentiality is maintained in accordance with organisation policy and procedure
1.2	Promote respect for <i>rights and responsibilities of clients</i> in the organisation
1.3	Encourage colleagues/team members appropriately to comply with confidentiality requirements, and maintain client rights and responsibilities
1.4	Ensure all work undertaken reflects and promotes understanding of and compliance with the principles of duty of care, legal responsibilities and related organisation goals and objectives
2.1	Ensure work undertaken reflects the role of the organisation and the range of services it provides
2.2	Ensure work undertaken reflects in the nature and needs of client groups accessing the services of the organisation
2.3	Work with an awareness of how the <i>organisation's operations</i> are financed
2.4	Recognise the role of other relevant organisations and individuals that contribute to client outcomes
2.5	Maintain and encourage positive <i>relationships between own organisation and other organisations and individuals</i> that contribute to client outcomes
3.1	Contribute to organisational improvement strategies
3.2	Participate in organisational improvement activities and functions
3.3	Monitor own work practice to contribute to improvement of organisation practice and performance

UNIT OF COMPETENCY (CORE)	Implement and monitor compliance with legal and ethical requirements (this represents 1 of 9 unit/s of competency towards the above qualification)	UNIT CODE: HLTIR506B
ELEMENTS of COMPETENCY		
1. Maintain ethical work practices		
2. Maintain appropriate documentation		
3. Maintain compliance with legal requirements		

The following are the Performance Criteria from the Health Training Package HLT07 which are aligned with the above Elements of Competency

PERFORMANCE CRITERIA	
1.1	Fulfil duty of <i>confidentiality</i> to the client, both at law and under professional code of ethics
1.2	Ensure the collection, use and <i>disclosure of client information</i> is consistent with information privacy principles
1.3	Ensure the <i>rights of clients</i> are recognised and respected throughout all stages of tests/procedures
1.4	Ensure adherence to relevant industry code of practice that outlines the minimum standard of professional conduct
1.5	Refer ethical issues or breaches of <i>ethical practice</i> to management or ethics committees in accordance with organisation policies and procedures
1.6	Exercise duty of care in all aspects of work to ensure client safety
1.7	Handle client complaints sensitively and in line with organisation policies and procedures
1.8	Perform all work within the boundaries of responsibility and refer problems to supervisor and/or other appropriate health professional
1.9	<i>Monitor work practices</i> to ensure that they reflect <i>principles of ethical practice</i>
2.1	When referral or request is received, ensure nature and requirements referral and/or request are correctly identified
2.2	Complete documentation within clients' medical records in accordance with state/territory legislation, and organisation policies and procedures
2.3	Ensure reports and documentation address requirements of state/territory legislation, and organisation policies and procedures
2.4	Implement policies and procedures to safe guard client information from unauthorised access or disclosure
3.1	Ensure statutory obligations and requirements are fulfilled
3.2	Ensure consent of client is obtained for each test/procedure, as required
3.3	M Ensure authorities are notified of client information as required by law
3.4	Ensure release of information contained within client records is completed in accordance with relevant federal, state/territory legislation and organisation policies and procedures
3.5	Ensure duty of care is met in all aspects of own work role
3.6	Ensure clients are provided with access to information about themselves in accordance with legislation or other statutory provisions
3.7	Ensure the right of every client to be treated fairly and equitably is recognised
3.8	Monitor compliance with legal obligations and requirements

UNIT OF COMPETENCY (CORE)	Collect pathology specimens other than blood for specialised testing (this represents 1 of 9 unit/s of competency towards the above qualification)	UNIT CODE: HLTPAT410B
ELEMENTS of COMPETENCY		
1. Prepare for specimen collection		
2. Perform procedure for specialised test		
3. Perform post collection procedures		
4. Label and store specimens		

The following are the Performance Criteria from the Health Training Package HLT07 which are aligned with the above Elements of Competency

PERFORMANCE CRITERIA	
1.1	Correctly identify pathology request and client
1.2	Identify precise nature and requirements of the test request
1.3	Explain procedure to client and obtain consent in accordance with legal requirements and organisation policy and procedure
1.4	Obtain relevant clinical information and record in accordance with organisation policies and procedures
1.5	Ensure client is correctly and comfortable positioned and prepared for the collection procedure
1.6	Comply with pre-test criteria
1.7	Refer pathology request to manager or appropriate health professional if required
1.8	Select and prepare equipment and disposables and correct collection containers for the specialised test
1.9	Maintain standard and additional precautions
1.10	Use personal and protective equipment correctly
2.1	Seek assistance of pathologist or medical scientist if required according to organization policy and procedure
2.2	Prepare collection site according to organisation policy and procedure
2.3	Follow infection control procedures throughout collection procedure
2.4	Follow correct procedure for collection of sample
2.5	Follow organisation policy and procedures for safe handling of pathology and non pathology specimens
3.1	Dispose of waste in accordance with organisation policies and procedures
3.2	Complete documentation
3.3	Check collection site
3.4	Cover collection site appropriately if required
3.5	Correctly position client and make them comfortable
3.6	Monitor client during and on completion of collection procedure to identify potential adverse outcomes
3.7	Provide relevant information and instructions to client
3.8	Notify appropriate staff if required so that the client's condition can be monitored
4.1	Label specimens in accordance with International Standards Organisation 9000 or National Association of Testing Authorities standards
4.2	Process specimens and store them correctly
4.3	Ensure specimens are appropriately contained for transport

UNIT OF COMPETENCY (CORE)	Perform blood collection for specialised testing (this represents 1 of 9 unit/s of competency towards the above qualification)	UNIT CODE: HLTPAT411B
ELEMENTS of COMPETENCY		
1. Prepare for blood collection		
2. Perform collection for specialised test		
3. Perform post-blood collection procedures		
4. Label and store specimens for transportation		

The following are the Performance Criteria from the Health Training Package HLT07 which are aligned with the above Elements of Competency

PERFORMANCE CRITERIA	
1.1	Correctly identify <i>pathology request</i> and <i>client</i>
1.2	Identify precise nature and requirements of the test request
1.3	Explain procedure client and obtain consent in accordance with legal requirements & <i>organisation policy & procedure</i>
1.4	Obtain relevant clinical information and record in accordance with organisation policies and procedures
1.5	Ensure client is correctly and comfortable positioned and prepared for the collection procedure
1.6	Comply with pre-test criteria
1.7	Refer pathology request to manager or appropriate health professional if required
1.8	Select and prepare equipment and disposables and correct collection containers for the specialised test
1.9	Maintain standard and additional precautions
1.10	Use personal and protective equipment correctly
2.1	Seek assistance of Pathologist or Medical Scientist if required according to organisation policy and procedure
2.2	Ensure client is correctly and comfortably positioned and prepared for the specific blood collection procedure
2.3	Identify appropriate method of blood collection is and follow current organisation policy and procedures
2.4	Place correct equipment and blood collection tubes appropriate for the specialized test in order of draw to ensure the blood collection accords with test requested
2.5	Select and prepare collection site according to organisation policy and procedure
2.6	Collect blood following correct procedure and equipment
2.7	Observe client during procedure for possible adverse reactions, and seek assistance from appropriate health professionals if required
2.8	Transfer correct volume of blood to the selected collection tubes in the ser order of draw
2.9	Invert collection tubes within timeframe required and according to organisation policies and procedures
2.10	Follow correct procedure for collection of sample
2.11	Apply pressure to collection site for the required time following withdrawal of needle
2.12	Observe and dress blood collection site, and monitor client for adverse effects
2.13	Follow infection control procedures throughout collection procedure
2.14	Follow organisation policy and procedures for safe handling of pathology specimens
3.1	Dispose of waste in accordance with organisation policies and procedures
3.2	Complete documentation
3.3	Label blood collection tubes with time and date of collection, client details and other required information
3.4	Check collection site
3.5	Monitor client for possible adverse reactions
3.6	Provide relevant information and instructions to client
3.7	Notify appropriate staff so that the client's condition can be monitored
4.1	Label specimens in accordance with International Standards Organisation 9000 or National Association of Testing Authorities standards
4.2	Process specimens and store them correctly
4.3	Contain specimens appropriately for transport

UNIT OF COMPETENCY (CORE)	Perform holter monitoring (this represents 1 of 9 unit/s of competency towards the above qualification)	UNIT CODE: HLTCA402B
ELEMENTS of COMPETENCY		
1. Prepare equipment for use		
2. Prepare client for holter monitor		
3. Attach holter monitor electrodes		
4. Analyse holter monitor trace		
5. Complete holter monitor process		

The following are the Performance Criteria from the Health Training Package HLT07 which are aligned with the above Elements of Competency

PERFORMANCE CRITERIA		
1.1 Check equipment for good working order		
1.2 Check materials for availability and supply		
1.3 Insert new battery and cassette tap correctly into holter monitor		
2.1 Receive and process the request for holter monitor in accordance with organisation procedure		
2.2 Identify the client correctly following the organisation's guidelines for preventing client misidentification		
2.3 Reassure and provide information to the client regarding the ECG procedure appropriately and completely		
2.4 Involve the client fully in discussions about their treatment using language they can understand		
2.5 Provide the client with the opportunity to ask questions and discuss areas of concern		
2.6 Record client information		
2.7 Review client medical history and address pre-existing conditions		
2.8 Obtain and document consent following ethical and legal requirements		
3.1 Maintain the client's privacy and dignity throughout procedure		
3.2 Complete preparation of client's skin for electrode placement as required		
3.3 Position the client correctly and comfortable and place electrodes in accordance with client's needs and current standards		
3.4 Attach leads correctly and double check lead placement		
3.5 Take a trial trace and check for interference, wandering baseline and amplitude		
3.6 Advise supervisor or an appropriate person if you think a client may be at risk		
4.1 Remove the holter monitor from client		
4.2 Review and correct the computer analysis of holter tape		
4.3 <i>Identify and action abnormal ECG patterns which require immediate medical attention</i>		
4.4 Print the full report and submit to cardiologist for review		
4.5 Print final report printed and send to requesting medical officer		
5.1 Remove holter monitor leads and electrodes from client		
5.2 Provide client with assistance as required on completion of procedure		
5.3 Clean holter monitor and leads on completion of procedure		
5.4 Dispose of disposable holter monitor electrodes and other materials in accordance with waste management procedures		
5.5 Remove holter monitor battery from device		
5.5 Store holter monitor leads in accordance with manufacturer's specifications		
5.6 Store holter monitor machine in accordance with manufacturer's specifications and OHS policy and procedures		

UNIT OF COMPETENCY (CORE)	Measure spirometry / flow volume loop (this represents 1 of 9 unit/s of competency towards the above qualification)	UNIT CODE: HLTPAT414B
ELEMENTS of COMPETENCY		
1. Prepare spirometer and materials for use		
2. Prepare client for procedure		
3. Perform spirometry		
4. Repeat spirometry measurement		
5. Complete spirometry measurement		

The following are the Performance Criteria from the Health Training Package HLT07
which are aligned with the above Elements of Competency

PERFORMANCE CRITERIA	
1.1	Ensure materials and spirometer selected are clean and in working order
1.2	Conduct performance check of spirometer
2.1	Arrange client bookings according to organisation procedures
2.2	Receive and check request for spirometry measurement for background client information
2.3	Correctly identify client and reassure and inform the client regarding the procedure
2.4	Record and document client details
2.5	Assess client for contraindications for performing spirometry
2.6	Obtain clarification from requesting medical officer when necessary
2.7	Calculate reference values
2.8	Explain procedure clearly and simply and demonstrate to client
3.1	Initialise equipment to commence recording and record additional information
3.2	Coach client through procedure with the provision of continuous instruction, encouragement and reassurance
3.3	Assess client throughout the procedure for ability to continue
3.4	Identify recording as technically correct
3.5	Provide client with feedback on performance
3.6	Produce minimum of three technically correct recordings
3.7	Repeat spirometry as necessary to comply with current standards for reproducibility
3.8	Make technically acceptable measurements according to current standards
3.9	Select indices for report in accordance with current standards
3.10	Correctly assess the need for administration of a bronchodilator in accordance with current standards and medical officer request
3.11	Identify and respond to clinical emergencies in accordance with organisation emergency procedures
4.1	Following the administration of a bronchodilator by an authorised person, allow sufficient time for its peak effect before proceeding
4.2	Initialise equipment to commence recording and record additional information
4.3	Coach client through procedure with the provision of continuous instruction, encouragement and reassurance
4.4	Ensure recording is technically correct
4.5	Provide client with feedback on performance
4.6	Produce a minimum of three technically correct recordings
4.7	Repeat spirometry as necessary to comply with current standards for reproducibility
4.8	Make technically acceptable measurements according to current standards
4.9	Select indices for report in accordance with current standards
5.1	Assist client as required on completion of procedure
5.2	Review follow up arrangements with client
5.3	Respond appropriately to client's questions
5.4	Dispose of or clean materials in accordance with organisation policies and procedures, and infection control guidelines
5.5	Clean, restock and store equipment according to manufacturer's guidelines
5.6	Complete report to technically acceptable standards and forward to physician for interpretation
5.7	Forward report and interpretation to requesting medical officer
5.8	Enter details of client and test completed on to database and/or hospital information system

UNIT OF COMPETENCY (CORE)	Perform electrocardiography (ECG) (this represents 1 of 9 unit/s of competency towards the above qualification)	UNIT CODE: HLTPAT407B
ELEMENTS of COMPETENCY		
1. Apply knowledge of the basic structure of the healthy human body		
2. Apply basic knowledge of factors that support healthy functioning of the body		

The following are the Performance Criteria from the Health Training Package HLT07 which are aligned with the above Elements of Competency

PERFORMANCE CRITERIA	
1.1	Use accepted health terminology to describe the normal structure, function and location of the major body systems
1.2	Apply a basic understanding of the fundamental principles of maintaining a healthy body
1.3	Work with knowledge of the major components of each body system and their location in relation to other structures
2.1	Work with a basic understanding of how to maintain the whole body in an overall state of health
2.2	Work with a basic understanding of the relationships between body systems required to support healthy functioning

The following are the Performance Criteria from the Health Training Package HLT07 which are aligned with the above Elements of Competency

PERFORMANCE CRITERIA	
1.1	Check ECG machine against a checklist before each use for good electrical working order, for cleanliness, calibration, and for correct settings
1.2	Check ECG machine to ensure that is maintained according to the AS 3551 Technical management Program for Medical Devices
2.1	Correctly identify, reassure and inform client, regarding the ECG procedure
2.2	Record client information eg name, medical record number, date and time, and whether client has chest pain or is pain free
2.3	Position client for the attachment of leads
2.4	Attach leads according to procedure manual, and correct lead placement is double checked
3.1	Label leads as they are recorded, and record if a filter is used
3.2	Record lead 2 'rhythm strip', being of a length prearranged with the requesting practitioner
3.3	Produce trace eliminating sources of interference and maintaining a straight base line
3.4	Clean client's chest and ECG electrodes on completion of procedure
3.5	Forward trace to cardiologist for reading
4.1	Identify and manage electrical interference
4.2	Identify and manage skeletal muscle tremor
4.3	Identify and manage excessive muscle activity
4.4	Identify and manage a wandering baseline

UNIT OF COMPETENCY (CORE)	Recognise healthy body systems in a health care context (this represents 1 of 9 unit/s of competency towards the above qualification)	UNIT CODE: HLTAP301A
ELEMENTS of COMPETENCY		
1. Collect clinical and other personal information from clients		
2. Plan and conduct collection procedures according to clinical risks		
3. Identify and respond to client reactions and complications		

The following are the Performance Criteria from the Health Training Package HLT07 which are aligned with the above Elements of Competency

PERFORMANCE CRITERIA	
1.1	Obtain <i>clinical and personal information</i> from client to establish potential clinical risks of performing collection procedure
1.2	Assess client against pre-test criteria
1.3	Make an assessment of <i>clinical risks</i>
1.4	Refer issues to an <i>appropriate person</i> when required
2.1	Select collection site based on testing needs, client's specific anatomy and physiology, and on assessment of <i>clinical risks</i>
2.2	Seek assistance from an <i>appropriate person</i> as required
2.3	Position client appropriately based on assessment of clinical risks
3.1	Observe client for reactions during and after <i>collection procedure</i>
3.2	Follow <i>emergency procedures</i> for severe reactions and complications
3.3	Follow <i>first aid protocols</i> in accordance with organisation policies and procedures

Employability Skills

The required outcomes in the units of competency within the HLT41807 Certificate IV in Pathology qualification contain applicable elements (facets) of Employability Skills.

The following Employability Skills Summary in which these units of competency is packaged will assist in identifying Employability Skill requirements.

Employability Skills	Industry/enterprise requirements for this qualification include the following elements
Communication	<ol style="list-style-type: none"> 1. Listening to and understanding work instructions, directions and feedback 2. Speaking clearly/directly to relay information 3. Reading and interpreting workplace related documentation, such as safety requirements and work instructions 4. Writing to address audience needs, such as work notes and reports 5. Interpreting the needs of internal /external customers from clear information 6. Applying numeracy skills to workplace requirements involving measuring and counting 7. Sharing information (eg with other staff) 8. Negotiating responsively (eg re own work role and/or conditions, possibly with clients) 9. Persuading effectively 10. Being appropriately assertive (eg in relation to safe or ethical work practices and own work role) 11. Empathising (eg relation to others)
Teamwork	<ol style="list-style-type: none"> 1. Working as an individual and a team member 2. Working with diverse individuals and groups 3. Applying knowledge of own role as part of a team 4. Applying teamwork skills to a limited range of situation 5. Identifying and utilising the strengths of other team members 6. Giving feedback
Problem Solving	<ol style="list-style-type: none"> 1. Developing practical solutions to workplace problems (eg within scope of own role) 2. Showing independence and initiative in identifying problems (eg within scope of own role) 3. Solving problems individually or in teams (eg within scope of own role) 4. Using numeracy skills to solve problems (eg time management, stock rotation, shift handover) 5. Testing assumptions and taking context into account (eg with an awareness of assumptions made and work context) 6. Listening to and resolving concerns in relation to workplace issues 7. Resolving customer concerns relative to workplace responsibilities (eg if role has direct customer contact)
Initiative and enterprise	<ol style="list-style-type: none"> 1. Adapting to new situations (eg within scope of own role) 2. Being creative in response to workplace challenges (eg within relevant guidelines and protocols) 3. Identifying opportunities that might not be obvious to other (eg within team or supervised work context) 4. Developing innovative solutions (ie. within a team or supervised work context and within established guidelines)

<p>Planning and organising</p>	<ol style="list-style-type: none"> 1. Collecting, analysing and organising information (eg within scope of own role) 2. Using basic systems for planning and organising (if applicable to own role) 3. Using being appropriately resourceful 4. Taking limited initiative and making decisions with workplace role (eg within authorised limits) 5. Participating in continuous improvements and planning processes (within scope of own role) 6. Working within clear work goals and deliverables 7. Determining or applying required resources (eg within scope of own role) 8. Managing time and priorities (eg in relation to tasks required for own role) 9. <i>Adapting resource allocations to cope with contingencies (ie. if relevant to own role)</i>
<p>Self management</p>	<ol style="list-style-type: none"> 1. Being self-motivated (eg in relation to requirements of own work role) 2. Articulating own ideas (eg within a team or supervised work context) 3. Balancing own ideas and values with workplace values and requirements 4. Monitoring and evaluating own performance (eg within a team or supervised work context) 5. Taking responsibility at the appropriate level
<p>Learning</p>	<ol style="list-style-type: none"> 1. Being open to learning new ideas and techniques 2. Learning in a range of settings including informal learning 3. Participating in ongoing learning 4. Learning in order to accommodate change 5. Learning new skills and techniques 6. Taking responsibility for own learning (eg within scope of own work role) 7. <i>Applying a range of learning approaches (ie as provided)</i> 8. Participating in developing own learning plans (eg as part of performance management)
<p>Technology</p>	<ol style="list-style-type: none"> 1. Using technology and related workplace equipment (eg if within scope of own role) 2. Using basic technology skills to organise data 3. Adapting to new technology skill requirements (eg within scope of own role) 4. Applying OHS knowledge when using technology