

UNIT CODE	NAT10913008
UNIT TITLE	Conduct a literature search to identify and critique sources of information
APPLICATION	<p>This unit applies to building biologists, clinicians and consultants who, as part of their occupation or work role, research, evaluate and critique information on environmental health to guide decision making.</p> <p>It requires knowledge of referencing styles, scientific databases, and reviews. It requires the skills to conduct a search, use MeSH terms, apply filters and Boolean operators, and critically review information for relevancy, currency, validity and bias.</p> <p>No occupational licensing, certification or specific legislative requirements apply to this unit at the time of publication.</p>
COMPETENCY FIELD	050999 Environmental Studies, nec
ELEMENTS	PERFORMANCE CRITERIA
Elements describe the essential outcomes of the unit	Performance criteria describe the performance needed to demonstrate achievement of the element.
1. Identify authoritative sources of information in environmental health	<p>1.1 Conduct a literature search to identify industry bodies, governmental agencies and non-governmental organisations in the field of environmental health</p> <p>1.2 Explain the hierarchy that underpins evidence-based medicine (EBM)</p> <p>1.3 Identify the various types of studies and their unique features</p> <p>1.4 Explain what is meant by meta-analysis and systematic review</p>
2. Conduct a search to find studies on environmental health	<p>2.1 Identify appropriate scientific databases to access health related information</p> <p>2.2 Identify keywords and MeSH terms to find relevant information</p> <p>2.3 Apply filters and use Boolean Operators to narrow a search</p> <p>2.4 Identify scientific papers relevant to hazards in the built environment</p>

<p>3. Evaluate and critique validity of scientific studies</p>	<p>3.1 Identify what type of study was undertaken</p> <p>3.2 Establish participant, intervention, comparator and outcome (PICO) associated with the study</p> <p>3.3 Identify the limitations associated with the study such as bias, confounding factors and/or conflicts of interest</p> <p>3.4 Make conclusions about the relevance, currency, validity and credibility of information</p>
<p>4. Document outcomes using accurate referencing</p>	<p>4.1 Collect, collate and record information</p> <p>4.2 Accurately use the Harvard referencing system to acknowledge the source of information and provide credibility to the work</p>

FOUNDATION SKILLS

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

Skill	Description
<p>Reading skills to:</p>	<p>Read and comprehend a range of texts from a range of sources and in varying formats in order to form opinion</p> <p>Evaluate the usefulness of information to meet the purpose</p> <p>Evaluate the credibility and relevance of information and ideas as part of the reading process</p> <p>Understands an increasing number of uncommon words and abstractions</p> <p>Selects references relevant to purpose</p>
<p>Writing skills to:</p>	<p>Produce, edit and proofread papers to ensure clarity of meaning, accuracy and consistency of information</p> <p>Address the context, purpose and audience when generating text</p> <p>Integrate information and ideas from a range of sources</p> <p>Relay/report researched information using clear and direct language appropriate to the reader/audience</p> <p>Validate findings where appropriate</p>



Oral communication skills to:	Listen strategically to gather verbal information from videos, Youtube clips, lectures and tutorials.		
Learning skills to:	<p>Actively and independently seeks a range of new information through research.</p> <p>Develop a formal set of questions to focus an information search in an unfamiliar field</p> <p>Reflect on researched material</p> <p>Reinforce learning by applying new knowledge gained through research</p> <p>Checks on updates within a specialised field</p>		
Problem-solving skills to:	<p>Identify and compare qualitative, quantitative and evidence-based research</p> <p>Analyse researched information and data</p>		
Initiative and enterprise skills to:	Review sources of research information and documentation to ensure currency and accuracy		
Planning and organising skills to:	<p>Identify the purpose of the research</p> <p>Undertake research</p> <p>Collect, record and organise information in a logical manner</p> <p>Establish research timelines to meet project reporting deadlines</p>		
Technology skills to:	<p>Use computer and internet technology to conduct research, store information, prepare a range of documents and upload files.</p> <p>Access and scan internet sites.</p>		
UNIT MAPPING INFORMATION			
	Code and Title Current Version	Code and Title Previous Version	Comments



AUSTRALIAN COLLEGE OF
ENVIRONMENTAL
STUDIES
TODD - 21748

	NAT10913008 Conduct a literature search to identify and critique sources of information	BLDBIO608 Apply literature research findings to hazards in the built environment	Equivalent unit	
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TITLE	Assessment requirements for NAT10913008 Conduct a literature search to identify and critique sources of information
PERFORMANCE EVIDENCE	<p>The learner must show evidence of the ability to complete tasks outlined in the elements and performance criteria of this unit, and manage tasks and contingencies in the context of the role of a Building Biologist. There must be demonstrated evidence that the learner completed the following tasks:</p> <ul style="list-style-type: none"> • Accessed relevant scientific databases • Used keywords and MeSH terms to find relevant information • Applied filters such as the publication date, article type, text availability, species and/or age • Applied Boolean operators to narrow the search • Identified what type of study was undertaken • Established participant, intervention, comparator and outcome (PICO) associated with the study • Identified the limitations associated with the study such as bias, confounding factors and/or conflicts of interest • Critiqued information for relevancy, currency, validity and credibility • Prioritised usefulness of information • Extrapolated research findings and apply knowledge • Used the Harvard referencing system to acknowledge the source of information and provide credibility to work • Used computer technology, software and internet search engines to access information
KNOWLEDGE EVIDENCE	<p>The learner must be able to demonstrate essential knowledge required to effectively do the task outlined in the elements and performance criteria of this unit, and manage the task and contingencies in the context of the work role. This includes knowledge of:</p> <ul style="list-style-type: none"> • Analysing information from a range of authoritative sources including government, non-government, industry associations and YouTube videos relevant to the field of study. • The hierarchy that underpins evidence-based medicine (EBM) • Types of studies, their features and limitations • Types of reviews and their features • MeSH terms, filters and Boolean operators to narrow a search • PICO – participant, intervention, comparator and outcome • Harvard referencing system

	<ul style="list-style-type: none"> • Features of a study that determine currency, relevancy, validity and credibility.
<p>ASSESSMENT CONDITIONS</p>	<p>Learners must have access to a computer with internet access. Assessment methods must include:</p> <ul style="list-style-type: none"> • Conducting literature searches • Analysing scientific papers • Short essay(s) to demonstrate the accurate use of Harvard referencing system <p>Assessor Requirements</p> <p>Assessors must:</p> <ul style="list-style-type: none"> • Have a postgraduate qualification undertaking research in any discipline.