

<b>Training Package</b>	<b>Conservation and Land Management (RTD02), Amenity Horticulture (RTF03) and Rural Production (RTE03)</b>	<b>HSC Requirements and Advice</b>
<b>Title</b>	<b>Apply chemicals under supervision</b>	
<b>Unit code</b> <b>RTC2706A</b>	<p>This competency standard covers the process of applying chemicals and biological agents for the control of weeds, pests and diseases using workplace specific application equipment. The work functions in this standard will be carried out under supervision. A thorough knowledge and the application of safety procedures and regulations when using chemicals is required.</p> <p><b>NB: This competency standard may be deemed to have a time limit when used as part of an accreditation or licence to purchase or use chemicals.</b></p>	<b>HSC Indicative Hours</b>  <b>25</b>

### Evidence Guide

#### What evidence is required to demonstrate competence for this standard as a whole?

Overall competence in this standard requires evidence that a person using chemicals in the workplace can use the correct equipment, apply the chemical correctly, record application, identify safety hazards and how to avoid them, and interpret and follow directions. The ability to use chemicals in one workplace should be **transferable** to another workplace. For example, if a chemical is applied under close supervision on a property growing grain crops, it should be evident that a chemical could be applied on a property where fruit is grown following induction to the new workplace.

<b>What specific knowledge is needed to achieve the performance criteria?</b>	<b>What specific skills are needed to achieve the performance criteria?</b>	<b>Are there other competency standards that could be assessed with this one?</b>	<b>Assessment guide</b>	<b>HSC Requirements and Advice</b>
<p>Knowledge and understanding are essential to apply this standard in the workplace, to transfer the skills to other contexts and to deal with unplanned events. The knowledge requirements for this competency standard are listed below:</p> <ul style="list-style-type: none"> <li>environmental effects of selected chemicals and how to minimise damaging effects of chemicals</li> <li>different broad chemical types, e.g., insecticides, herbicides and fungicides and their mode of action symbols on the label</li> <li>principles of Integrated Pest Management</li> <li>paths of entry of poisons into the body and methods of limiting</li> </ul>	<p>To achieve the performance criteria, appropriate literacy and numeracy levels as well as some complimentary skills are required. These include the ability to:</p> <ul style="list-style-type: none"> <li>work using a variety of chemical application tools and pieces of equipment that are suitable for the particular application task using safe and environmentally responsible work practices</li> <li>accurately interpret labels, record relevant information and measure application amounts</li> <li>respond to emergencies and apply first aid in the event of pesticide poisoning.</li> </ul>	<p>This competency standard <u>could</u> be assessed on its own or in combination with other competencies relevant to the job function.</p>	<p><b>What are the special assessment conditions for this competency standard?</b></p> <p>Where this competency standard is being used as part of an accreditation or licence for purchase or use of chemicals the assessor must meet the requirements of the issuing body. This may include:</p> <ol style="list-style-type: none"> <li>Accreditation with that issuing body</li> <li>Maintenance of current competency in this and the following standards: <ul style="list-style-type: none"> <li>RTC3704A – Prepare and apply chemicals</li> </ul> </li> </ol>	<p><b>Key Terms and Concepts</b></p> <ul style="list-style-type: none"> <li>application rate</li> <li>application tools and equipment</li> <li>chemical inventory</li> <li>chemical labels</li> <li>chemical poisoning</li> <li>chemical spill procedures</li> <li>clean up</li> <li>codes of practice</li> <li>decontamination</li> <li>disposal of chemicals</li> <li>dry formulations</li> <li>emergency services</li> <li>NSW Department of Environment and Conservation</li> <li>handling, transport and storage of chemicals</li> <li>hazardous substances</li> </ul>

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<p>exposure</p> <ul style="list-style-type: none"> <li>• methods of minimising risk during application</li> <li>• personal protective equipment and how, when and why it should be used and stored</li> <li>• maintenance of personal protective equipment</li> <li>• relevant State or territory legislation, regulations and Codes of Practices with regard to hazardous substances or the use of chemicals</li> <li>• Occupational Health and Safety concerning personal safety and safety of others in the workplace</li> <li>• use of chemicals as one tool of pest management</li> <li>• possible effects on health of bystanders/public in addition to applicators</li> <li>• weather conditions and means of assessing them in line with risks, and recognising when they become unsuitable for application to continue</li> <li>• correct wearing/fit of personal protective equipment.</li> </ul>			<ul style="list-style-type: none"> <li>• RTC3705A – Transport, handle and store chemicals</li> <li>• RTC4702A – Minimise risks in the use of chemicals</li> <li>• RTC4703A – Plan and implement a chemical use program</li> </ul> <p>3. Involvement in professional development programs comprising technical and legislative updates on an annual basis.</p> <p>There is essential information about <b>assessing this competency standard for consistent performance and where and how it may be assessed</b>, in the Assessment Guidelines for this Training Package. All users of these competency standards must have <b>access</b> to both the <b>Assessment Guidelines</b> and the relevant <b>Sector Booklet</b>.</p>	<ul style="list-style-type: none"> <li>• hazards</li> <li>• integrated pest management</li> <li>• legislation relating to the use of chemicals</li> <li>• liquid formulations</li> <li>• maintenance of equipment</li> <li>• Material Safety Data Sheet (MSDS)</li> <li>• measuring and decanting</li> <li>• occupational health and safety (OHS)</li> <li>• personal protective equipment (PPE)</li> <li>• pre- and post-operational checks</li> <li>• reporting and recording</li> <li>• risk assessment</li> <li>• safe work practices</li> <li>• types of chemicals.</li> </ul>

Element	Performance Criteria	Range of Variables	HSC Requirements and Advice
<p>1 Follow instructions to check and maintain application and personal protective equipment</p>	<p>1.1 Pre and post operational checks and maintenance on <b>application equipment</b> are carried out according to manufacturers specifications and enterprise procedures.</p>	<p>The Range of Variables explains the context within which the performance and knowledge requirements of this standard may be assessed. The scope of variables chosen in training and assessment requirements may depend on the work situations available.</p> <p>For more information on contexts, environment and variables for training and assessment refer to the Sector Booklet.</p> <p>What <b>pre and post operational checks</b> might be relevant to this standard?</p> <p>Checks may be made to weather conditions (e.g., wind), nozzles, hoses, regulators/gauges, respirator cartridges, drench, and protective clothing and equipment.</p> <p>What types of <b>application equipment</b> are relevant to this standard?</p> <p>Knapsacks or hand held pneumatic sprayers, drench guns, spot on applicators, syringes, or other equipment relevant to the workplace.</p>	<p><b>Learning experiences for the HSC must address:</b></p> <p>Knowledge of a range of application equipment including:</p> <ul style="list-style-type: none"> <li>• knapsacks</li> <li>• hand-held pneumatic sprayers</li> <li>• drench guns</li> <li>• spot-on and pour-on applicators</li> <li>• syringes</li> <li>• wiper application</li> <li>• boom spray.</li> </ul> <p>Pre- and post-operational checks including:</p> <ul style="list-style-type: none"> <li>• weather conditions including <ul style="list-style-type: none"> <li>– imminent rain</li> <li>– wind speed</li> <li>– wind direction</li> <li>– humidity</li> </ul> </li> <li>• nozzles including <ul style="list-style-type: none"> <li>– malfunction and blockages</li> <li>– size</li> <li>– type</li> </ul> </li> <li>• hoses including <ul style="list-style-type: none"> <li>– leaks</li> <li>– connections</li> <li>– blockages</li> </ul> </li> <li>• regulators/gauges including <ul style="list-style-type: none"> <li>– malfunction</li> <li>– leaks</li> <li>– damage</li> </ul> </li> <li>• function, suitability and condition of personal protective equipment including <ul style="list-style-type: none"> <li>– respirator cartridges</li> <li>– clothing</li> <li>– equipment</li> </ul> </li> <li>• calibration of equipment.</li> </ul> <p>Manufacturer’s specifications including chemical labels and Material Safety Data Sheet (MSDS).</p>

Element	Performance Criteria	Range of Variables	HSC Requirements and Advice
	<p>1.2 <b>Application and personal protective equipment</b> are prepared and adjusted for use appropriate to the situation and in accordance with OHS requirements.</p>	<p>What <b>personal protective equipment</b> might be relevant to this standard?</p> <p>Personal equipment may include boots, overalls, chemical resistant gloves, aprons, face shields, respirators or hats.</p> <p>What <b>procedures</b> may be followed in the event of a spill?</p> <p>May include procedures according to the label, Material Safety Data Sheets (Material Safety Data Sheet (MSDS)s) or legislation.</p>	<p><b>Learning experiences for the HSC must address:</b></p> <p>Selection, use, maintenance and storage of personal protective equipment (PPE) appropriate to work task.</p> <p>A range of PPE including:</p> <ul style="list-style-type: none"> <li>• footwear</li> <li>• head protection – hard hat, sun hat and helmet</li> <li>• gloves</li> <li>• overalls</li> <li>• apron</li> <li>• respirator</li> <li>• face mask</li> <li>• hearing protection</li> <li>• eye protection – goggles, safety glasses and face guard</li> <li>• sunscreen</li> <li>• waterproof clothing.</li> </ul> <p>Importance of correct fitting PPE.</p> <p>Maintenance of PPE according to manufacturer’s instructions and enterprise Standard Operating Procedures (SOP):</p> <ul style="list-style-type: none"> <li>• cleaning and decontamination</li> <li>• correct storage</li> <li>• regular checks for damage</li> <li>• repair/replacement of worn, malfunctioning or damaged equipment/parts</li> <li>• disposal of single-use equipment.</li> </ul>
	<p>1.3 Instructions are followed to identify and maintain damaged, non-functioning or worn equipment.</p>		<p><b>Learning experiences for the HSC must address:</b></p> <p>Signs of damaged, non-functioning and worn equipment including:</p> <ul style="list-style-type: none"> <li>• leaks</li> <li>• cracks</li> <li>• malfunction</li> <li>• worn components.</li> </ul> <p>Maintenance of damaged, non-functioning and worn equipment including assessing the need for replacement or repair.</p>

Element	Performance Criteria	Range of Variables	HSC Requirements and Advice
	1.4 OHS hazards are identified and reported to the supervisor.	<p>What <b>hazards</b> may be relevant to this standard?</p> <p>Hazards will be listed on labels and the Material Safety Data Sheet (MSDS)s for the chemical concerned and may include flammability, toxicity, health hazards, damage to non-target organisms, environmental damage or residues in food or feedstuffs.</p>	<p>Understanding of the dangers of modifying equipment and using equipment in any manner other than for the purpose intended.</p> <p><b>Learning experiences for the HSC must address:</b></p> <p>Methods of poisoning in humans including:</p> <ul style="list-style-type: none"> <li>• inhalation</li> <li>• absorption</li> <li>• ingestion</li> <li>• injection.</li> </ul> <p>An awareness of potential hazards associated with:</p> <ul style="list-style-type: none"> <li>• mixing and preparation of chemicals</li> <li>• application of chemicals</li> <li>• re-entry into previously sprayed areas</li> <li>• bystanders and general public</li> <li>• manual handling</li> <li>• machinery and equipment</li> <li>• adverse weather conditions.</li> </ul> <p>Risk minimisation including:</p> <ul style="list-style-type: none"> <li>• correct use of PPE</li> <li>• appropriate application timing</li> <li>• appropriate quantity and strength</li> <li>• correct application methods</li> <li>• signage</li> <li>• spraying in appropriate weather conditions</li> <li>• chemical selection</li> <li>• re-entry restrictions</li> <li>• alternate pest control.</li> </ul> <p>Reporting including:</p> <ul style="list-style-type: none"> <li>• formal/informal</li> <li>• verbal/non-verbal.</li> </ul>
2 Use application and personal protective equipment	2.1 <b>Chemical</b> label is interpreted.	<p>Which <b>chemicals</b> may be relevant to this standard?</p> <p>Chemicals may include herbicides, insecticides, fungicides, algaecides, growth regulators, growth promotants, bio-agents or vaccines. Excludes application of S6 and S7 chemicals.</p>	<p><b>Learning experiences for the HSC must address:</b></p> <p>Use of chemicals as one form of pest management.</p> <p>Integrated Pest Management procedures including:</p> <ul style="list-style-type: none"> <li>• identification of pests</li> <li>• alternative control methods</li> <li>• risk assessment.</li> </ul>

Element	Performance Criteria	Range of Variables	HSC Requirements and Advice
			<p>An awareness of the different types of chemicals including:</p> <ul style="list-style-type: none"> <li>• herbicides</li> <li>• fungicides</li> <li>• insecticides</li> <li>• algaecides</li> <li>• growth regulators</li> <li>• bioagents</li> <li>• vaccines</li> <li>• nematocides</li> <li>• rodenticides</li> <li>• antimicrobial</li> <li>• anthelmintics</li> <li>• hormonal growth promotants.</li> </ul> <p>An awareness of formulation types:</p> <ul style="list-style-type: none"> <li>• dry formulations including <ul style="list-style-type: none"> <li>– dusts</li> <li>– granules</li> <li>– tablets</li> <li>– pellets</li> <li>– wettable powders</li> <li>– soluble powders</li> </ul> </li> <li>• liquid formulations including <ul style="list-style-type: none"> <li>– water soluble</li> <li>– emulsifiable</li> <li>– oil formation</li> <li>– flowables</li> <li>– aerosols</li> <li>– injectables</li> <li>– pour-on and spot-on.</li> </ul> </li> </ul> <p>Information on MSDS including:</p> <ul style="list-style-type: none"> <li>• manufacturer's/supplier's details</li> <li>• physical description and properties</li> <li>• identification of substance</li> <li>• use</li> <li>• ingredients</li> <li>• health hazard information</li> <li>• first aid</li> <li>• precautions for use</li> <li>• safe handling information</li> <li>• control point.</li> </ul>

Element	Performance Criteria	Range of Variables	HSC Requirements and Advice
			<p>Information on chemical labels including:</p> <ul style="list-style-type: none"> <li>• trade name</li> <li>• directions for use</li> <li>• product type</li> <li>• active constituents</li> <li>• broad claims of use</li> <li>• signal heading</li> <li>• net contents</li> <li>• manufacturer</li> <li>• restraints</li> <li>• withholding period</li> <li>• general instructions</li> <li>• precautionary statements</li> <li>• storage and disposal</li> <li>• safety directions and first aid instructions</li> <li>• emergency information</li> <li>• batch number</li> <li>• manufacturer and expiry dates</li> <li>• dangerous goods information.</li> </ul>
	<p>2.2 Application and personal protective equipment appropriate to the task are recognised and used, maintained and stored according to enterprise procedure and OHS requirements.</p>	<p>What types of <b>application equipment</b> are relevant to this standard?</p> <p>Knapsacks or hand held pneumatic sprayers, drench guns, spot on applicators, syringes, or other equipment relevant to the workplace.</p> <p>What <b>personal protective equipment</b> might be relevant to this standard?</p> <p>Personal equipment may include boots, overalls, chemical resistant gloves, aprons, face shields, respirators or hats.</p>	<p><b>Learning experiences for the HSC must address:</b></p> <p>Considerations for the selection of application equipment including:</p> <ul style="list-style-type: none"> <li>• area to be treated</li> <li>• chemical to be applied</li> <li>• rate of application</li> <li>• formulation</li> <li>• chemical drift</li> <li>• pest to be treated.</li> </ul> <p>Maintenance of application equipment including:</p> <ul style="list-style-type: none"> <li>• cleaning of residues</li> <li>• replacement of worn or malfunctioning equipment and components.</li> </ul> <p>Considerations for the selection of PPE including:</p> <ul style="list-style-type: none"> <li>• the chemical to be used</li> <li>• the method of application</li> <li>• the chemical label and MSDS.</li> </ul>

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	2.3 Measurement and decanting of substances comply with directions.	<p>What <b>tools</b> may be relevant to this standard?</p> <p>Tools may include hand tools, measuring jugs and cylinders, scales, syphoning equipment, drum rinse, and batching tank.</p>	<p><b>Learning experiences for the HSC must address:</b></p> <p>Determining the amount and method of chemical measurement according to:</p> <ul style="list-style-type: none"> <li>• chemical type</li> <li>• rate of application</li> <li>• application equipment to be used</li> <li>• chemical label</li> <li>• MSDS.</li> </ul> <p>Measurement equipment including:</p> <ul style="list-style-type: none"> <li>• graduated measures</li> <li>• measuring jugs</li> <li>• scales</li> <li>• volumetric measures (that correspond to weight).</li> </ul> <p>An understanding of dangers involved with decanting chemicals.</p>
	2.4 <b>Safe working practices</b> relevant to the situation are followed.	<p>What <b>safe working practices</b> may be relevant to this standard?</p> <p>Safe working practices may include procedures for handling, transporting and storing chemicals, selecting and using personal protective clothing and equipment, safe operation of machinery and equipment, safe procedures for applying chemicals and following manufacturers instructions.</p>	<p><b>Learning experiences for the HSC must address:</b></p> <p>Safe work practices including:</p> <ul style="list-style-type: none"> <li>• reading chemical label and MSDS</li> <li>• use of PPE</li> <li>• selection of chemical</li> <li>• dilution rate</li> <li>• selection of applicator</li> <li>• application rate</li> <li>• operation of machinery and equipment</li> <li>• following manufacturer's instructions</li> <li>• procedures for handling, transporting and storing chemicals</li> <li>• procedures for applying chemicals.</li> </ul>
	2.5 Procedures in the event of a chemical spill are identified and followed.	<p>What <b>procedures</b> may be followed in the event of a spill?</p> <p>May include procedures according to the label, Material Safety Data Sheets (Material Safety Data Sheet (MSDS)s) or legislation.</p>	<p><b>Learning experiences for the HSC must address:</b></p> <p>Chemical spill procedures including:</p> <ul style="list-style-type: none"> <li>• use of PPE</li> <li>• isolation of the spill</li> <li>• containment of the spill</li> <li>• identification of the chemical</li> <li>• decontamination of the spill</li> <li>• notification of appropriate authorities</li> </ul>

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			<ul style="list-style-type: none"> <li>- NSW Department of Environment and Conservation [incorporating Environment Protection Authority (EPA)]</li> <li>- emergency services</li> <li>• clean up and disposal of the spill in an approved manner</li> <li>• procedures set out by MSDS</li> <li>• first aid if necessary.</li> </ul>
3 Apply chemicals	3.1 <b>Hazards</b> are identified and associated risks recognised.	<p>What <b>hazards</b> may be relevant to this standard?</p> <p>Hazards will be listed on labels and the Material Safety Data Sheet (MSDS)s for the chemical concerned and may include flammability, toxicity, health hazards, damage to non-target organisms, environmental damage or residues in food or feedstuffs.</p>	<p><b>Learning experiences for the HSC must address:</b></p> <p>An awareness of potential hazards.</p> <p>A basic understanding of risk assessment:</p> <ul style="list-style-type: none"> <li>• identify hazard</li> <li>• assess associated risks</li> <li>• strategies to control/eliminate risks.</li> </ul>
	3.2 Requirements for application equipment to accurately and effectively apply the required dose of the chemical to the target are followed.	<p>What types of <b>application equipment</b> are relevant to this standard?</p> <p>Knapsacks or hand held pneumatic sprayers, drench guns, spot on applicators, syringes, or other equipment relevant to the workplace.</p> <p>What <b>tools</b> may be relevant to this standard?</p> <p>Tools may include hand tools, measuring jugs and cylinders, scales, syphoning equipment, drum rinse, and batching tank.</p>	
	3.3 Safe working practices relevant to the situation are followed.	<p>What <b>safe working practices</b> may be relevant to this standard?</p> <p>Safe working practices may include procedures for handling, transporting and storing chemicals, selecting and using personal protective clothing and equipment, safe operation of machinery and equipment, safe procedures for applying chemicals and following manufacturers instructions.</p> <p>What <b>legislation or regulations</b> may be relevant to this standard?</p> <p>Legislation may include Pesticides Acts, Occupational Health and Safety Acts and</p>	<p><b>Learning experiences for the HSC must address:</b></p> <p>Safe work practices including:</p> <ul style="list-style-type: none"> <li>• reading chemical labels and MSDS</li> <li>• use of PPE</li> <li>• selection of chemical</li> <li>• dilution rate</li> <li>• selection of applicator</li> <li>• application rate</li> <li>• operation of machinery and equipment</li> <li>• following manufacturer's instructions</li> <li>• procedures for handling, transporting and storing chemicals</li> <li>• procedures for applying chemicals.</li> </ul>

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		associated Hazardous Substances Regulations/ Codes of Practice, Dangerous Goods Acts, Poisons Schedule or Protection of the Environment Acts.	A basic understanding of legislation relating to the use of chemicals including: <ul style="list-style-type: none"> <li>• <i>Pesticides Act 1999</i> (NSW)</li> <li>• <i>Protection of the Environment Operations Act 1997</i> (NSW)</li> <li>• <i>Occupational Health and Safety Act 2000</i> (NSW)</li> <li>• <i>Occupational Health and Safety Regulation 2001</i> (NSW)</li> <li>• <i>Dangerous Goods Act 1975</i> (NSW)</li> <li>• Code of practice for the control of workplace hazardous substances 1996 (NSW)</li> <li>• Code of practice for the safe use and storage of chemicals in agriculture 1998 (NSW)</li> <li>• <i>Agricultural and Veterinary Chemicals Act 1994</i> (Cth)</li> <li>• <i>Noxious Weeds Act 1993</i> (NSW)</li> <li>• <i>Noxious Weeds Regulation 2003</i> (NSW).</li> </ul>
4 Follow instructions to empty and clean equipment and containers according to directions	4.1 Instructions for clean-up are identified.		<b>Learning experiences for the HSC must address:</b> Clean-up procedures according to MSDS and chemical label with due consideration to the environment and OHS.
	4.2 Equipment and clean up methods using appropriate <b>tools</b> are followed.	What <b>tools</b> may be relevant to this standard? Tools may include hand tools, measuring jugs and cylinders, scales, syphoning equipment, drum rinse, and batching tank.	
	4.3 Instructions for disposal of containers and unused chemical or biological agents are identified.		<b>Learning experiences for the HSC must address:</b> The disposal of containers including: <ul style="list-style-type: none"> <li>• use of approved disposal sites</li> <li>• use of approved collection groups</li> <li>• directions from the MSDS and chemical label</li> <li>• consideration of environmental and legislative requirements.</li> </ul> The disposal of unwanted chemical or biological agents including: <ul style="list-style-type: none"> <li>• government collection</li> </ul>

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			<ul style="list-style-type: none"> <li>manufacturer or Australian Pesticides and Veterinary Medicines Authority (APVMA) [previously NRA] recall.</li> </ul>
5 Complete chemical records	5.1 Chemical inventory is recorded as instructed and as required by regulations.	<p>What <b>legislation or regulations</b> may be relevant to this standard?</p> <p>Legislation may include Pesticides Acts, Occupational Health and Safety Acts and associated Hazardous Substances Regulations/ Codes of Practice, Dangerous Goods Acts, Poisons Schedule or Protection of the Environment Acts.</p> <p>What <b>application details</b> may be recorded as part of this standard?</p> <p>Details such as time, date, quantity and type of chemical, weather, application equipment, host and pest, accidents or dangerous occurrences may be recorded or must be recorded where required by legislation.</p>	<p><b>Learning experiences for the HSC must address:</b></p> <p>Requirements of a chemical inventory including:</p> <ul style="list-style-type: none"> <li>date of purchase</li> <li>product name</li> <li>supplier</li> <li>batch number</li> <li>expiry date/date of manufacturer</li> <li>dangerous goods class</li> <li>date used</li> <li>quantity used</li> <li>quantity remaining</li> <li>disposal of chemicals</li> <li>signature.</li> </ul> <p>Purposes for chemical inventories including:</p> <ul style="list-style-type: none"> <li>stock control</li> <li>out-of-date stock</li> <li>legislative requirements.</li> </ul>
	5.2 Chemical <b>application details</b> are reported as instructed and as required by regulations.		<p><b>Learning experiences for the HSC must address:</b></p> <p>Chemical application details including:</p> <ul style="list-style-type: none"> <li>time of treatment</li> <li>date of treatment</li> <li>quantity and type of chemical used</li> <li>weather conditions</li> <li>application equipment</li> <li>host and pest</li> <li>accidents or dangerous occurrences</li> <li>site/group treated</li> <li>application and mixing rate</li> <li>clean-up and disposal</li> <li>withholding periods (WHP)</li> <li>Export Slaughter Interval (ESI).</li> </ul>
6 Transport, handle and store chemicals according to instructions and legislative requirements	6.1 Transport, handling and storage requirements for chemicals used are recognised and followed.	<p>What <b>safe working practices</b> may be relevant to this standard?</p> <p>Safe working practices may include procedures</p>	<p><b>Learning experiences for the HSC must address:</b></p> <p>Identification of the requirements for chemical transport, handling and storage found on MSDS and</p>

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		<p>for handling, transporting and storing chemicals, selecting and using personal protective clothing and equipment, safe operation of machinery and equipment, safe procedures for applying chemicals and following manufacturers instructions.</p>	<p>chemical labels.</p> <p>Transport requirements including:</p> <ul style="list-style-type: none"> <li>• use of separate compartment from persons and foodstuffs</li> <li>• protection from extreme weather</li> <li>• undamaged containers</li> <li>• securing load</li> <li>• locking vehicle when not attended to prevent access to chemicals by unknown persons</li> <li>• quantities that can be safely transported</li> <li>• groups of chemicals that can safely be transported together</li> <li>• chemical signage.</li> </ul> <p>Handling including:</p> <ul style="list-style-type: none"> <li>• mixing</li> <li>• loading</li> <li>• application</li> <li>• decontamination</li> <li>• disposal</li> <li>• use of PPE.</li> </ul> <p>Storage including:</p> <ul style="list-style-type: none"> <li>• segregation of classes of chemicals</li> <li>• sealing chemical containers</li> <li>• intact labels</li> <li>• order of stock usage</li> <li>• securing leaking or damaged containers</li> <li>• accessible first aid kit.</li> </ul>
	<p>6.2 Requirements for storage of chemicals at the workplace are recognised and followed.</p>		<p><b>Learning experiences for the HSC must address:</b></p> <p>Storage of chemicals should consider the following:</p> <ul style="list-style-type: none"> <li>• signage</li> <li>• ventilation and fume exhaust systems</li> <li>• concrete flooring and door sills</li> <li>• bunding</li> <li>• lockable door</li> <li>• sufficient lighting</li> <li>• spills kit</li> <li>• fire extinguisher</li> <li>• access to water.</li> </ul>

## What processes should be applied to this competency standard?

There are a number of processes that are learnt throughout work and life, which are required in all jobs. They are fundamental processes and generally transferable to other work functions. Some of these are covered by the **key competencies**, although others may be added. The questions below highlight how these processes are applied in this competency standard. Following each question a number in brackets indicates the level to which the key competency needs to be demonstrated where

0 = not required

1 = perform the process

2 = perform and administer the process

3 = perform, administer and design the process

1. How can <b>communication of ideas and information (1)</b> be applied?	Information about chemicals and how they will be applied and recorded may be communicated to work colleagues or the supervisor.
2. How can <b>information be collected, analysed and organised (1)</b> ?	Information may be collected and analysed from chemical labels, MSDSs, operators manuals or from Codes of Practice and advisory materials outlining regulations relevant to chemical use.
3. How are <b>activities planned and organised (1)</b> ?	Recognising and using equipment, application and cleaning up of chemicals will require coordination of activities.
4. How can <b>team work (1)</b> be applied?	Applying chemicals with others in the workplace or in conjunction with other team functions.
5. How can the use of <b>mathematical ideas and techniques (1)</b> be applied?	Correctly measuring volume of chemical to apply, recording information and working out time periods before work can continue in the area.
6. How can <b>problem-solving skills (1)</b> be applied?	Taking action concerning faulty equipment may require problem solving.
7. How can the <b>use of technology (1)</b> be applied?	Recording information may require technology to be used.