



Australian Government

Department of Education, Employment and Workplace Relations

AURT300571A Inspect, service and repair crop planting and seeding equipment

Release: 1

AURT300571A Inspect, service and repair crop planting and seeding equipment

Modification History

Not Applicable

Unit Descriptor

Unit descriptor	This unit covers the competence required to carry out the inspection, service and repair of crop planting and seeding equipment.
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Application of the Unit

Application of the unit	<p>Crop planting and seeding equipment refers to specialised equipment involved in planting and seeding. It does not cover generalised equipment and systems which form the platform or the towing vehicle.</p> <p>The unit includes identification and confirmation of work requirement, preparation for work, inspection and analysis of results, servicing and repair of equipment and completion of work finalisation processes, including clean-up and documentation.</p> <p>Work involves purpose-designed and constructed crop planting and seeding equipment which may be self-propelled, towed or airborne.</p> <p>Work requires individuals to demonstrate judgement and problem-solving skills in managing own work activities and contributing to a productive team environment.</p> <p>Work is carried out in accordance with award provisions.</p>
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Licensing/Regulatory Information

Not Applicable

Pre-Requisites

Prerequisite units		

Employability Skills Information

Employability skills	This unit contains employability skills.
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Elements and Performance Criteria Pre-Content

Elements describe the essential outcomes of a unit of competency.	Performance criteria describe the performance needed to demonstrate achievement of the element. Where bold italicised text is used, further information is detailed in the required skills and knowledge section and the range statement. Assessment of performance is to be consistent with the evidence guide.
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Elements and Performance Criteria

ELEMENT	PERFORMANCE CRITERIA
1. Prepare to inspect crop planting and seeding equipment	1.1. Nature and scope of work requirements are identified and confirmed 1.2. OH&S requirements, including individual State/Territory regulatory requirements and personal protection needs are observed throughout the work 1.3. Procedures and information such as workshop manuals and specifications, and tooling, are sourced 1.4. Method options are analysed and those most appropriate to the circumstances are selected and prepared 1.5. Technical and/or calibration requirements for inspecting crop planting and seeding equipment are sourced and support equipment is identified and prepared 1.6. Warnings in relation to working with crop planting and seeding equipment observed
2. Conduct inspection and analyse results	2.1. Methods for inspection are implemented in accordance with workplace procedures and manufacturer/component supplier specifications 2.2. Inspection results are compared with manufacturer/component supplier specifications to indicate compliance or non-compliance 2.3. Results are documented with evidence and supporting information and recommendation(s) made 2.4. Report is processed in accordance with workplace procedures
3. Service and repair crop planting and seeding equipment	3.1. OH&S requirements, including individual State/Territory regulatory requirements and personal protection needs are observed throughout the work 3.2. Procedures and information are identified and sourced 3.3. Technical and tool requirements for service and repair are identified and support equipment is identified and prepared 3.4. Methods for service and repair are implemented in accordance with workplace procedures and manufacturer/ component supplier specifications 3.5. Adjustments made during the service and repair are in accordance with manufacturer/component supplier specifications
4. Prepare equipment for operation	4.1. Variable operating parameters are identified from manufacturer/component supplier specifications and analysis of proposed working environment and

ELEMENT	PERFORMANCE CRITERIA
	<p>conditions</p> <p>4.2. Equipment variables, including management systems settings, controls and monitoring systems are established and prepared for proposed operations</p> <p>4.3. Equipment and systems are test run and final adjustments are made to achieve and maintain operating parameters</p> <p>4.4. Regulatory requirements, including equipment safety and environmental compliance, are applied and satisfied</p>

ELEMENT	PERFORMANCE CRITERIA
5. Prepare equipment for use or storage	5.1. Service/repairs schedule documentation is completed 5.2. Final inspection is made to ensure protective guards, safety features and cowlings are in place 5.3. Final inspection is made to ensure work is to workplace expectations 5.4. Equipment is cleaned for use or storage to workplace expectations 5.5. Job card is processed in accordance with workplace procedures

Required Skills and Knowledge

REQUIRED SKILLS AND KNOWLEDGE

This section describes the skills and knowledge required for this unit.

Required skills

- apply research and interpretive skills sufficient to locate, interpret and apply manufacturer/component supplier procedures, workplace policies and procedures
- apply analytical skills for identification and analysis of technical information
- apply plain English literacy and communication skills in relation to dealing with customers and team members
- apply questioning and active listening skills for example when obtaining information from customers
- apply oral communication skills sufficient to convey information and concepts to customers
- apply planning and organising skills to own work activities, including making good use of time and resources, sorting out priorities and monitoring own performance
- interact effectively with other persons both on a one-to-one basis and in groups, including understanding and responding to the needs of a customer and working effectively as a member of a team to achieve a shared goal
- establish safe and effective work processes which anticipate and/or resolve problems and downtime, to systematically develop solutions to avoid or minimise reworking and avoid wastage
- use mathematical ideas and techniques to correctly calculate time, assess tolerances, apply accurate measurements, calculate material requirements and establish quality checks
- use workplace technology related to the servicing and repair of crop sowing and seeding equipment, including the use of specialist tooling, measuring equipment, computerised technology and communication devices and the documenting/recording of results

REQUIRED SKILLS AND KNOWLEDGE**Required knowledge**

A working knowledge of:

- OH&S and environmental regulations/requirements, equipment, material and personal safety requirements
- dangers of working with crop planting and seeding equipment
- operating principles of crop planting and seeding equipment and their relationship to each other
- equipment operating parameters and the factors which will impact on these
- types and layout of service/repair manuals (hard copy and electronic)
- inspection procedures
- service and/or repair procedures
- enterprise quality procedures
- work organisation and planning processes

Evidence Guide

EVIDENCE GUIDE

The evidence guide provides advice on assessment and must be read in conjunction with the performance criteria, required skills and knowledge, range statement and the Assessment Guidelines for the Training Package.

Overview of assessment

Critical aspects for assessment and evidence required to demonstrate competency in this unit

It is essential that competence in this unit signifies ability to transfer competence to changing circumstances and to respond to unusual circumstances in the critical aspects of:

- observing safety procedures and requirements
- communicating effectively with others involved in or affected by the work
- selecting methods and techniques appropriate to the circumstances
- completing preparatory activity in a systematic manner
- completing a minimum of four full cycles requiring inspection, servicing, repair and preparing of crop planting/seeding equipment for operations ensuring;
 - accurate interpretation of inspection results
 - completion of inspection, service and repair in accordance with workplace and manufacturer/component supplier requirements
 - completion of work within workplace timeframes
 - preparation of equipment for operations
 - equipment presentation to customer in compliance with workplace requirements

Context of, and specific resources for assessment

The following resources should be made available:

- workplace location or simulated workplace
- material relevant to the servicing and repair of crop planting and seeding equipment
- equipment, hand and power tooling appropriate to the service and repair of crop planting and seeding equipment
- activities covering mandatory task requirements
- specifications and work instructions

Method of assessment

Assessment must satisfy the endorsed assessment guidelines of the automotive industry's RS&R Training Package
Assessment methods must confirm consistency and accuracy of performance together with application of underpinning knowledge
Assessment must be by direct observation of tasks, with

EVIDENCE GUIDE

questioning on underpinning knowledge and it must also reinforce the integration of key competencies
Assessment may be applied under project related conditions and require evidence of process
Assessment must confirm a reasonable inference that competence is able not only to be satisfied under the particular circumstance, but is able to be transferred to other circumstances
It is preferable that assessment reflects a process rather than an event and occurs over a period of time to cover varying quality circumstances. Evidence of performance may be provided by customers, team leaders/members or other persons subject to agreed authentication arrangements
Competence in this unit may be assessed in conjunction with other functional units which together form part of the holistic work role

EVIDENCE GUIDE**Guidance information for assessment****Range Statement****RANGE STATEMENT**

The range statement relates to the unit of competency as a whole. It allows for different work environments and situations that may affect performance. Bold italicised wording, if used in the performance criteria, is detailed below. Essential operating conditions that may be present with training and assessment (depending on the work situation, needs of the candidate, accessibility of the item, and local industry and regional contexts) may also be included.

OH&S

OH&S requirements are to be in accordance with legislation/regulations/codes of practice and enterprise safety policies and procedures. This may include protective clothing and equipment, use of tooling and equipment, workplace environment and safety, handling of material, use of fire fighting equipment, enterprise first aid, hazard control and hazardous materials and substances

Personal protective equipment

Personal protective equipment is to include that prescribed under legislation/regulation/codes of practice and workplace policies and practices

Safe operating procedures

Safe operating procedures are to include, but are not limited to operational risk assessment and treatments associated with vehicular movement, toxic substances, electrical safety, machinery movement and operation, manual and mechanical lifting and shifting, working in proximity to others and site visitors

Emergency procedures

Emergency procedures related to this unit are to include but may not be limited to emergency shutdown and stopping of equipment, extinguishing fires, enterprise first aid requirements and site evacuation

Environmental requirements

Environmental requirements are to include but are

RANGE STATEMENT	
	not limited to waste management, machine hygiene, dust and clean-up management
Quality requirements	Quality requirements are to include, but are not limited to regulations, including Australian Standards, internal company quality policy and standards and enterprise operations and procedures
Statutory/regulatory authorities	Statutory/regulatory authorities may include Federal, State/Territory and local authorities administering acts, regulations and codes of practice
Tooling and equipment	Tooling and equipment may include hand tooling, diagnostic and monitoring systems, meters, gauges, load testing devices, and pulling and pushing devices
Materials	Materials may include spare parts, lubricants, fluids and cleaning materials
Communications	Communications are to include, but are not limited to verbal and visual instructions and fault documenting and may include site specific instructions, written instructions, plans or instructions related to job/task, telephones and pagers
Information/documents	<p>Sources of information/documents may include:</p> <ul style="list-style-type: none"> • verbal or written and graphical instructions, signage, work schedules/plans/specifications, work bulletins, memos, material safety data sheets, diagrams or sketches • safe work procedures related to the inspection, servicing and repair of crop planting and seeding equipment • regulatory/legislative requirements pertaining to automotive industry, including Australian Design Rules • engineer's design specifications and instructions • organisation work specifications and requirements • instructions issued by authorised enterprise or

RANGE STATEMENT

	external persons
	• Australian Standards

Unit Sector(s)

Unit sector	Technical
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Co-requisite units

Co-requisite units	

Competency field

Competency field	
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