

# AURKTA3001 Synchronise plant and equipment

Release 1



## AURKTA3001 Synchronise plant and equipment

## **Modification History**

Release	Comment	
Release 1	Replaces AURT300373A Synchronise plant/equipment	
	Unit code updated to meet policy requirements	
	Minor changes to unit title	
	Reference to OHS legislation replaced with new WHS legislation	
	Licensing statement added to unit descriptor	

## **Unit Descriptor**

Unit descriptor	This unit covers the competence required to synchronise plant/ equipment.	
	Licensing, legislative, regulatory or certification requirements may apply to this unit in some jurisdictions. Users are advised to check with the relevant regulatory authority.	

## **Application of the Unit**

Application of the unit	Work involved includes plant/equipment used for specific applications.	
	Work requires individuals to demonstrate judgement and problem-solving skills in managing own work activities and contributing to a productive team environment.	

## **Licensing/Regulatory Information**

Not applicable.

## **Pre-Requisites**

Not applicable.

Approved Page 2 of 9

## **Employability Skills Information**

|--|

## **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.
---	--

Approved Page 3 of 9

## **Elements and Performance Criteria**

ELEMENT	PERFORMANCE CRITERIA	
Prepare to undertake synchronising operations	1.1.WHS requirements, including individual State/Territory regulatory requirements and personal protection needs are observed throughout the work	
	1.2. Procedures and information such as workshop manuals and specifications, and tooling, are sourced	
	1.3.Method options are analysed and those most appropriate to the circumstances are selected and prepared	
	1.4.Technical and/or calibration requirements for synchronising are sourced and support equipment is identified and prepared	
	1.5. Warnings in relation to working with plant/equipment are observed	
2. Conduct synchronising procedures	2.1. Methods for synchronising procedures are implemented in accordance with workplace procedures and manufacturer/component supplier specifications	
	2.2.Synchronising procedures are implemented	
	2.3. Documentation of synchronising tests are completed	
3. Analyse results	3.1.Operational functions are carried out and test results are compared with manufacturer/component supplier specifications	
	3.2.Results are analysed to indicate compliance or non-compliance	
	3.3.Results are documented with evidence and supporting information and recommendation(s) made	
	3.4.Report is forwarded to persons for action in accordance with workplace procedures	
4. Prepare plant and	4.1. Workplace documentation is completed	
equipment for use or storage	4.2. Final inspection is made to ensure protective guards, safety features and cowlings are in place	
	4.3. Final inspection is made to ensure work is to workplace expectations	
	4.4.Plant/equipment is cleaned for use or storage to workplace expectations	
	4.5. Job card is completed and delivered to appropriate persons	

Approved Page 4 of 9

### 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 synchronising plant/ equipment, including the use of specialist tooling, measuring equipment, computerised technology and communication devices and the documenting/recording of results

#### Required knowledge

A working knowledge of:

- WHS and environmental regulations/requirements, equipment, material and personal safety requirements
- dangers of working with vehicles and/or plant and equipment
- operating principles of engines and associated components and their relationship to each other
- workshop and site synchronisation procedures
- enterprise quality procedures
- work organisation and planning processes

Approved Page 5 of 9

## **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.

Guidelines for the Training Pa	ickage.
Overview of assessment	
Critical aspects for assessment and evidence required to demonstrate	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:
competency in this unit	<ul> <li>observing safety procedures and requirements</li> <li>communicating effectively with others involved in or affected by the work</li> <li>selecting methods and techniques appropriate to the circumstances</li> <li>completing preparatory activity in a systematic manner</li> <li>completing the synchronisation of plant/equipment to workplace and manufacturer/component supplier requirements</li> <li>conducting testing and inspections in accordance with workplace requirements</li> <li>interpreting test results</li> <li>completing the work within workplace timeframes</li> <li>presenting plant/equipment to customer in compliance with workplace requirements</li> </ul>
Context of, and specific resources for assessment	Application of competence is to be assessed in the workplace or simulated worksite
	Assessment is to occur using standard and authorised work practices, safety requirements and environmental constraints
	Assessment is to comply with regulatory requirements, including Australian Standards
	The following resources should be made available:
	<ul> <li>workplace location or simulated workplace</li> <li>material relevant to synchronising plant/equipment</li> <li>equipment, hand and power tooling appropriate to synchronising plant/equipment</li> </ul>
	<ul><li>activities covering mandatory task requirements</li><li>specifications and work instructions</li></ul>
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

Approved Page 6 of 9

#### EVIDENCE GUIDE

performance together with application of underpinning knowledge

Assessment must be by direct observation of tasks, with 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

Approved Page 7 of 9

## **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.

WHS 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 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 are to include but are not limited to regulations, including Australian Standards, internal company 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  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, meters, gauges, load testing devices and sample analysis equipment		
Legislation/regulation/codes of practice and workplace policies and practices	WHS	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
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  Environmental requirements are to include but are not limited to waste management, noise, 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  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, meters, gauges,	_	legislation/regulation/codes of practice and workplace policies and
not be limited to emergency shutdown and stopping of equipment, extinguishing fires, enterprise first aid requirements and site evacuation  Environmental requirements are to include but are not limited to waste management, noise, 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, meters, gauges,	Safe operating procedures	operational risk assessment and treatments associated with vehicular movement, toxic substances, electrical safety, machinery movement and operation, manual and mechanical lifting and
requirementswaste management, noise, dust and clean-up managementQuality requirementsQuality requirements are to include, but are not limited to regulations, including Australian Standards, internal company quality policy and standards and enterprise operations and proceduresStatutory/regulatoryStatutory/regulatory authorities may include Federal, State/Territory and local authorities administering acts, regulations and codes of practiceTooling and equipmentTooling and equipment may include hand tooling, meters, gauges,	Emergency procedures	not be limited to emergency shutdown and stopping of equipment, extinguishing fires, enterprise first aid requirements and site
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, meters, gauges,		
authorities State/Territory and local authorities administering acts, regulations and codes of practice  Tooling and equipment Tooling and equipment may include hand tooling, meters, gauges,	Quality requirements	regulations, including Australian Standards, internal company quality policy and standards and enterprise operations and
		State/Territory and local authorities administering acts, regulations
	Tooling and equipment	

Approved Page 8 of 9

RANGE STATEMENT		
Materials	Materials may include spare parts 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	<ul> <li>Sources of information/documents may include:</li> <li>verbal or written and graphical instructions, signage, work schedules/plans/specifications, work bulletins, memos, material safety data sheets, diagrams or sketches</li> <li>safe work procedures related to synchronising plant/ equipment</li> <li>regulatory/legislative requirements pertaining to automotive industry, including Australian Design Rules</li> <li>engineer's design specifications and instructions</li> <li>organisation work specifications and requirements</li> <li>instructions issued by authorised enterprise or external persons</li> <li>Australian Standards</li> </ul>	

# **Unit Sector(s)**

Unit sector	Mechanical - Mobile Plant	
-------------	---------------------------	--

## Co-requisite units

Not applicable.

# **Competency field**

Competency field	Technical	
------------------	-----------	--

Approved Page 9 of 9