



Australian Government

Department of Education, Employment and Workplace Relations

AURT318054A Provide advice on the effects of wheel and tyre combinations

Release: 1

AURT318054A Provide advice on the effects of wheel and tyre combinations

Modification History

Not Applicable

Unit Descriptor

Unit descriptor	This unit covers the competence to effectively advise customers on how specific wheel and tyre combinations can affect their vehicle's ride and handling characteristics.
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Application of the Unit

Application of the unit	The unit applies to light vehicles, including 4WDs, light commercial vehicles and various types of motorsport vehicles. It includes identification and confirmation of work requirement, preparation for work, confirmation of customer needs, technical analysis of needs and options, provision of advice on compliance, recommendation as to a plan of action and completion of work finalisation processes, including clean-up and documentation. Work involves advising customers how specific non-standard wheel and tyre combinations can affect ride and handling characteristics of their vehicle. Work requires individuals to demonstrate judgement and problem-solving skills in managing own work activities and contributing to a productive team environment. Work is carried out in accordance with award provisions.
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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. Confirm facts relating to customer enquiry	1.1. Customer is consulted to determine if wheel and tyre modifications are actual or proposed 1.2. Reasons for requiring alternative wheel and tyre combinations are discussed and confirmed with customer 1.3. Specifications of proposed or actual wheel and tyre combinations are clarified with customer
2. Access and confirm data to make an informed technical opinion	2.1. Technical product persons from identified wheel and tyre manufacturer/component supplier are consulted to access technical information and advice 2.2. Proposed or actual modifications are confirmed if they contravene Australian Design Rules 2.3. Technical product information to assist with providing information about wheel and tyre modifications is researched and accessed 2.4. Colleagues are consulted who may be able to assist through previous technical knowledge and experience
3. Recommend a plan of action to meet customer requirements	3.1. An explanation is given to the customer on how specifications relate to intended use of vehicle 3.2. Implications of wheel and tyre combination not complying with a specific Australian Design Rules regulation is discussed with customer 3.3. Suitability of proposed or actual wheel and tyre combination is discussed with customer and advice is given based on experience or facts derived from product sources 3.4. Suitable plan of action is discussed and clarified to meet customer needs

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

REQUIRED SKILLS AND KNOWLEDGE

- 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 advising on wheel and tyre combinations, including the use of measuring equipment, computerised technology and communication devices and the documenting/recording of results

Required knowledge

A working knowledge of:

- OH&S regulations/requirements, equipment, material and personal safety requirements
- the implications of contravening Australian Design Rules
- principles of wheel and tyre technology
- types, characteristics, uses and limitations of wheel and tyre combinations
- methods of effectively discussing technical information with customers
- work organisation and planning processes
- enterprise quality 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 is fully observed and there is ability to transfer competence to changing circumstances and to respond to unusual situations 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
- confirming facts relating to wheel and tyre modifications
- accessing sources of wheel and tyre technical information
- developing a plan of action which satisfies customer requirements in the most economical and legal fashion
- presenting automotive wheel and tyre technical information and specifications at an understandable level to customer

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:

- workplace location or simulated workplace
- material relevant to advising on wheel and tyre combinations
- equipment and tooling appropriate to advising on wheel and tyre combinations
- 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

EVIDENCE GUIDE

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

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.

Wheel and tyre specifications

Types of wheel and tyre specifications are to include wheel rim sizes, wheel material, wheel diameters, tyre sizes, tyre compounds and tyre tread designs

Product sources

Product sources are to include specialist tyre retail outlets, specialist wheel retail outlets, specialist wheel and tyre repairers, wheel and tyre manufacturer/component suppliers

Colleagues

Colleagues may include other mechanics or technicians, supervisory staff and contacts made with wheel and tyre manufacturer/component suppliers

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

RANGE STATEMENT	
Environmental requirements	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, breaker devices, gauges, jacks, hoists and pressure testing devices
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	Sources of information/documents may include: • verbal or written and graphical instructions, signage, work schedules/plans/specifications, work bulletins, memos, material safety data sheets, diagrams or sketches • 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 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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