



Australian Government

Department of Education, Employment and Workplace Relations

AURM542738A Manage team pit lane/service area operations

Release: 1

AURM542738A Manage team pit lane/service area operations

Modification History

Not Applicable

Unit Descriptor

Unit descriptor	This unit of competency covers the skills and knowledge required to plan, coordinate and oversee the operations of a motorsport team technical service crew. It includes pit lane/service area operations, emergency repairs and coordination of competition vehicle on-track support, persons and team communication.
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Application of the Unit

Application of the unit	Work requires individuals to demonstrate discretion, judgement and problem-solving skills in the development of the pit lane/service area management plan and contingency strategies, supervision of team members and inspection of the pit lane/service area. Competence must be demonstrated at and during a motorsport event.
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Licensing/Regulatory Information

Not Applicable

Pre-Requisites

Prerequisite units		
	AURM340951B	Perform pit lane/service area operations

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. Develop pit lane/service area management plan	1.1. Occupational health and safety (OHS) requirements, including regulatory requirements and personal protection needs, are observed throughout the work 1.2. Controlling body rules, category rules and supplementary regulations requirements are checked and implemented 1.3. Required tooling and equipment are identified and checklists developed 1.4. Competition vehicle on-track support strategies are devised and documented 1.5. Team member responsibilities are determined and communicated 1.6. Task timings are determined, documented and communicated 1.7. Communication strategy is developed and team members briefed 1.8. Team work area and equipment security procedures are developed and team members briefed 1.9. Contingency plan is developed and documented
2. Inspect pit lane/service area operation readiness	2.1. Pit lane/service area layout is devised and implemented 2.2. Equipment and tool checks for operation, positioning and compliance with team specifications, controlling body rules, category rules, supplementary regulations and OHS requirements are supervised 2.3. Correct positioning of competition vehicle stop and service markings are checked
3. Supervise technical/service crew	3.1. Team members are briefed on their responsibilities, task timings, category rule and supplementary regulations requirements, OHS and environmental legislative requirements and security procedures prior to an event 3.2. Responsibilities and tasks are reviewed with team members at an event site 3.3. Communications equipment is allocated and communication strategy is reviewed with team members 3.4. Pit lane/service area operations are supervised and work is controlled as required

ELEMENT	PERFORMANCE CRITERIA
	3.5.Safe working environment and practices are monitored and corrected as required 3.6.Emergency repairs on competition vehicle are supervised and decision on re-entering event given 3.7.Checks with team members are made regularly during an event
4. Coordinate competition vehicle on-track support	4.1.Technical advice is provided to driver/rider during competition and additional information is sought should clarification be required 4.2.Competition related information and strategy is communicated to the driver/rider and team members during competition 4.3.Records of race and team performance are maintained 4.4.Liaison with event officials is conducted
5. Supervise post-event operations	5.1.Team members are supervised to ensure post-event impoundment procedures are followed as per controlling body rules, category rules or supplementary regulations 5.2.Dismantling of pit lane/service area is supervised 5.3.Clean-up of work area is supervised 5.4.Disposal of waste material is supervised to ensure compliance with local requirements, environmental and OHS regulations 5.5.Team/event documentation is completed

Required Skills and Knowledge

REQUIRED SKILLS AND KNOWLEDGE

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

Required skills

Required skills include:

- collect, organise and understand information related to category rules and supplementary regulations, pit lane/service area operational tasks, legislative and team requirements to develop contingency strategies and a pit lane/service area management plan
- communicate ideas and information to enable team compliance with the pit

REQUIRED SKILLS AND KNOWLEDGE

lane/service area management plan and procedures

- plan and organise activities including pit lane/service area operations to avoid workflow interruptions, competition vehicle damage, injury or time wastage
- work with others and in a team by recognising dependencies and using cooperative approaches to optimise workflow and productivity
- use mathematical ideas and techniques to correctly gauge task timing, material requirements, vehicle stop markings and equipment and tooling positioning
- use scenario planning, critical path analysis and logistics planning techniques to accommodate workflow, positioning, storage and works sequencing requirements
- use workplace technology related to planning and logistics, including computer hardware and software

Required knowledge

Required knowledge includes:

- controlling body rules, category rules and supplementary regulations
- controlling safe working practices in a pit lane/service area
- pit lane/service area operational tasks
- communication principles
- group dynamics principles
- effective supervision techniques
- scenario and logistics planning
- critical path analysis
- operational plan development

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

Assessors must be satisfied that the candidate can competently and consistently:

- interpret and apply team requirements, controlling body and category rules and supplementary regulations
- apply safety requirements including use of personal protective equipment and materials handling equipment
- implement and supervise task instructions, operating procedures and inspection processes to:
 - minimise the risk of injury to self or others
 - prevent damage to competition vehicle or equipment
 - achieve required outcomes within team time and quality standards
- develop and implement a pit lane/service area management plan, covering:
 - minimisation of risk of injury to self or others
 - minimisation of the risk of damage to competition vehicle, tooling and equipment and wastage of material
 - minimisation of service and emergency repair times
 - addressing of potential problems
- supervise team members effectively
- modify activities to cater for variations in context and environment.

Context of, and specific resources for assessment

- Assessment must occur at and during a motorsport event.
- Access to category rules and supplementary regulations and legislation as identified in the Range Statement, team procedures and past performance data.

Method of assessment

- Assessment methods must confirm consistency of performance over time and in a range of workplace contexts.
- Assessment should be by direct observation of tasks and questioning on underpinning knowledge.
- Assessment should be conducted over time and may be in conjunction with assessment of other units of competency.

EVIDENCE GUIDE	
	Competence in this unit may be assessed in conjunction with other functional units which together form part of the holistic work role.
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.	
Pit lane/service area	Pit lane/service area is defined as the area where the team technical support crew works on the competition vehicle during an event and includes the pit bay
OHS requirements	OHS requirements include: - state/territory and federal legislation - material safety management systems - hazardous substances and dangerous goods code - local safe operating procedures
Legislative requirements	Work is carried out in accordance with environmental legislation, health regulations and team procedures
Tooling and equipment	Tooling and equipment may include, but is not limited to: - pneumatic wrenches - boom and hoses - gas cylinders - jacks and jacking safety locks - smash repair equipment - spare components

RANGE STATEMENT	
	• cleaning equipment • fuel churns and refuelling equipment • fuel spill equipment • brake piston retraction tool • lifting devices and/or stands • boat launch equipment (e.g. winches, trailers, lifting slings and decanting equipment)
Personal protective equipment	Personal protective equipment is to include that prescribed under legislation, regulations and enterprise policies and practices, including: • heat-proof gloves • enclosed shoes • long trousers
Information/documents	Information/documents may include: • team procedures relating to pit lane/service area operation, team member roles, confidentiality and security • controlling body rules, category rules and supplementary regulations relating to pit lane/service area operations • environmental, hazardous chemical and dangerous goods legislation and local requirements relating to the disposal and use of fuels, lubricants, coolants and cleaning agents

Unit Sector(s)

Unit sector	Motorsport
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Co-requisite units

Co-requisite units		

Co-requisite units		

Competency field

Competency field	
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