



Australian Government

Department of Education, Employment and Workplace Relations

AURR371181A Implement and monitor environmental regulations in the marine repair industry

Release: 1

AURR371181A Implement and monitor environmental regulations in the marine repair industry

Modification History

Not Applicable

Unit Descriptor

Unit descriptor	This unit of competency covers the competency required to undertake the repair, maintenance and installation of marine craft engines and or components and electrical systems in a manner that ensures the protection of the environment.
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Application of the Unit

Application of the unit	Competency may be demonstrated in workplaces involved in the repair, maintenance and installation of marine craft engines, component and electrical systems and components. Work is carried out in accordance with legislative obligations, environmental legislation, health regulations, manual handling procedures and organisation insurance requirements. Work requires individuals to demonstrate discretion, judgement and problem-solving skills in undertaking environmentally sound work practices.
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Licensing/Regulatory Information

Not Applicable

Pre-Requisites

Prerequisite units	

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
<p>1. Implement environmental regulations</p>	<p>1.1. Reasons for ethical environmental practice in a marine maintenance, repair and installation workplace are identified</p> <p>1.2. Environmental responsibilities of staff in a marine maintenance, repair and installation workplace are identified.</p> <p>1.3. Penalties for individual breaches of the legislation are identified</p> <p>1.4. Waste is minimised, wastes, including biological material (marine biota), sludge and solids are sorted and stored in appropriate bins for recycling or disposal</p>
<p>2. Monitor and avoid hazards to stormwater, foreshores and marine environments</p>	<p>2.1. No wastewater or contaminants are allowed to enter stormwater systems, foreshores or marine environments</p> <p>2.2. All vessel, engine and component repairs, maintenance and installation are undertaken in an environmentally responsible manner to avoid hazards to stormwater systems, foreshores and the marine environment</p> <p>2.3. Engine and component cleaning is carried out in an area that is bunded or graded to a collection pit</p> <p>2.4. All preparation areas, in particular anti-foulant paint preparation, is bunded and under cover to ensure accidental spillage cannot escape into stormwater systems, foreshores and marine environments</p> <p>2.5. All components containing environmentally hazardous material are stored undercover in a sealed and bunded area</p> <p>2.6. All liquid wastes are drained into appropriate storage or recycling containers</p> <p>2.7. Bilge water is disposed of in an appropriate manner</p> <p>2.8. Spill kit is located and used as needed and disposed of as controlled waste by a licensed contractor to prevent stormwater, foreshore pollution and damage to the marine environment</p> <p>2.9. Spills are cleaned up immediately and the workplace is kept clean to prevent unintentional pollution to stormwater, foreshores and the marine environment</p>
<p>3. Monitor and avoid hazards to air quality</p>	<p>3.1. Welding, soldering and thermal cutting is conducted in a well-ventilated area</p> <p>3.2. Hazards of airborne particles are monitored, minimised and contained</p>

ELEMENT	PERFORMANCE CRITERIA
	3.3. Hazards of gases are identified, monitored and contained 3.4. Clean-up of guns and general tools and equipment is conducted in an environmentally safe manner
4. Monitor and avoid noise hazards	4.1. Noise generating activities are minimised and carried out within approved operating hours

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 environmental procedures from legislation, regulations, policies, guidelines, standards and workplace practices in a marine maintenance, repair and installation workshop
- communicate ideas and information to enable all work undertaken is in accordance with environmental best practice, coordination of work with site supervisor, other workers and customers, and the reporting of work outcomes and problems
- plan and organise activities, including the preparation of equipment and materials and the selection of an appropriate worksite to avoid any environmental contamination, backtracking, workflow interruptions or wastage
- work with others and in a team by recognising dependencies and using cooperative approaches to minimise wastage, optimise workflow and productivity
- use mathematical ideas and techniques to correctly complete measurements and estimate material requirements required for the work
- use planning, checking, inspection and investigative techniques to avoid any environmental contamination and wastage
- use the workplace technology related to environmental protection measures

Required knowledge

Required knowledge includes:

- aspects of environmental legislation and its implications to work being undertaken
- characteristics and potential environmental impact of products used in the repair, maintenance and installation of marine craft engines, components and electrical systems
- philosophy of reduce, reuse, recycle

REQUIRED SKILLS AND KNOWLEDGE

- procedures for reporting machinery faults and material defects
- action to be taken in case of significant environmental threat in the workplace
- reporting procedures for significant environmental damage occurring in the workplace
- awareness of the environmental effects of tributyltin, arsenic, mercury, copper, lead, hydrocarbons, oil/oily water and DDT on marine environment

Evidence Guide

EVIDENCE GUIDE	
<p>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.</p>	
Overview of assessment	
Critical aspects for assessment and evidence required to demonstrate competency in this unit	<ul style="list-style-type: none"> • Apply safe handling requirements for equipment, products and materials, including use of personal protective equipment • Implement environmental regulations and best practice • Identify materials used in the repair, maintenance and installation process and assess their environmental impact • Follow work instructions, operating procedures and inspection processes to: <ul style="list-style-type: none"> • minimise the risk of injury to self and others • prevent damage and wastage of goods, equipment and products • maintain required production output and product quality • conduct operator maintenance on tools and equipment to ensure environmental efficiency • Work effectively with others • Modify activities to cater for variations in workplace context and the environment • Use of a spill kit.
Context of, and specific resources for assessment	<ul style="list-style-type: none"> • Access to a marine maintenance, repair and installation workplace with access to marine crafts requiring repair, maintenance, testing or installing of components and/or systems, parts washers, recycling bins and pressure washing equipment with waste water recycling ability. • Assessment may occur on the job or in a workplace simulated facility with process equipment, materials, work instructions and deadlines.
Method of assessment	<ul style="list-style-type: none"> • 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 should be in conjunction with assessment of other units of competency. • Competence in this unit may be assessed in conjunction

EVIDENCE GUIDE	
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	with other functional units which together form part of the holistic work role
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EVIDENCE GUIDE	
Guidance information for assessment	

Range Statement

RANGE STATEMENT	
<p>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.</p>	
Marine maintenance, repair and installation workplace	<p>Marine maintenance, repair and installation workplace includes:</p> <ul style="list-style-type: none"> marine workplace undertaking either generalist or specialist repairs to marine or components
Work requirements	<p>Work involves the normal activities of a marine maintenance and repair workplace, including:</p> <ul style="list-style-type: none"> the installation, removal, repair, testing and replacement of marine craft engines; the installation, removal, repair, testing and replacement of marine electrical systems and components; welding, soldering and thermal cutting of marine components; and the removal and preparation of vessel surfaces and components for painting with anti-foulant based products
Occupational health and safety (OHS)	<p>OHS requirements include:</p> <ul style="list-style-type: none"> safety management systems, hazardous substances and dangerous goods code and safe operating procedures
Tools and equipment	<p>Tools and equipment are to include:</p> <ul style="list-style-type: none"> spill kits, recycling bins and drums, parts washers, bunded wash bays, air extraction equipment, slipways and hardstand areas with pollution control measures and diversion

RANGE STATEMENT	
	valves and waste water management system
Materials	Materials include: <ul style="list-style-type: none"> • material data safety sheets (MSDS)
Personal protective equipment	Personal protective equipment is to include that prescribed under legislation, regulations and enterprise policies and practices
Information and procedures	Information and procedures may include: <ul style="list-style-type: none"> • environmental legislation, regulations and advice • workplace procedures relating to the use of tools and equipment • work instructions, including job sheets and/or cards • workplace procedures relating to reporting and communication of environmental issues • manufacturer and/or component supplier/component supplier specifications and operational procedures • site environmental policy • MSDS

Unit Sector(s)

Unit sector	Recreational boating
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Co-requisite units

Co-requisite units	

Competency field

Competency field	
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