



Australian Government

Department of Education, Employment and Workplace Relations

LMFFF2005B Maintain spray equipment and booth

Revision Number: 1

LMFFF2005B Maintain spray equipment and booth

Modification History

Not applicable.

Unit Descriptor

Unit descriptor	This unit covers the competency to strip, clean, restore and service spray equipment and booths.
------------------------	--

Application of the Unit

Application of the unit	
--------------------------------	--

Licensing/Regulatory Information

Not applicable.

Pre-Requisites

Prerequisite units	Nil	

Employability Skills Information

Employability skills	This unit contains employability skills.
-----------------------------	--

Elements and Performance Criteria Pre-Content

<p>Elements describe the essential outcomes of a unit of competency.</p>	<p>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.</p>
--	---

Elements and Performance Criteria

ELEMENT	PERFORMANCE CRITERIA
1. Prepare for work	1.1. Work instructions are used to determine job requirements, including timings, equipment to be maintained and materials 1.2. OHS requirements, including ventilation and personal protection needs, are observed throughout the work 1.3. Tools, equipment and accessories are identified and checked for safe and effective operation 1.4. Work area is cleared of unwanted stock, products and materials 1.5. Equipment is isolated from power sources and made safe in accordance with site procedures
2. Maintain the equipment	2.1. Equipment is dismantled in accordance with manufacturers' specifications and site procedures 2.2. Components are laid out in a logical reassembly sequence 2.3. Components are cleaned and serviced using authorised materials and tools/equipment 2.4. Components are inspected and faulty items repaired, replaced or referred for further maintenance action 2.5. Equipment is reassembled and operations are tested 2.6. Equipment maintenance is reported/recorded in accordance with site procedures
3. Maintain booths	3.1. Combustion and ignition sources are neutralised throughout the work sequence 3.2. Ventilation and other services are inspected for operation, cleaned out and, where appropriate, replenished, replaced or referred for further maintenance action 3.3. Surfaces and floors are cleaned and restored in accordance with site and industry standards 3.4. Materials and consumable stores are cleaned and restored in accordance with site, industry and regulatory standards

Required Skills and Knowledge

REQUIRED SKILLS AND KNOWLEDGE

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

Required skills

- collect, organise and understand information related to spray systems and equipment, maintenance materials, work orders, plans and safety procedures
- communicate ideas and information to enable confirmation of work requirements and specifications, 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 and layout of the worksite and the obtaining of equipment and materials to avoid any back tracking, workflow interruptions or 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 estimate material requirements
- use pre-checking and inspection techniques to anticipate maintenance problems, avoid reworking and avoid wastage
- use the limited workplace technology related to maintenance, including machines, tools, equipment, and measuring devices

Required knowledge

- identification of spray system equipment, processes and procedures
- the types, characteristics and maintenance requirements for spray booth services, including at a minimum ventilation, lighting, water and electrical reticulation
- characteristics of the coatings and base materials in terms of toxicity, reactivity and flammability
- types, characteristics, uses and limitations of cleaning solvents and agents
- effects of the fumes, heat and other radiations on surface coatings
- material safety management systems

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.

Critical Aspects of Evidence

- Locate, interpret and apply information relevant to the spray equipment and booth services
- Apply safe handling requirements for equipment, products and materials, including use of personal protective equipment
- Follow work instructions, operating procedures and inspection practices to:
 - minimise the risk of injury to self or others
 - prevent damage to goods, equipment or products
 - maintain required standards and quality
- Disassemble, maintain and reassemble at least two different spray systems
- Maintain a booth and booth services on at least two occasions
- Work effectively with others
- Modify activities to cater for variations in workplace contexts and environment.

Resource Implications

Spray systems and equipment, spray booth, cleaning and maintenance materials.

Method of Assessment

Assessment methods must confirm consistency of performance over time and in a range of workplace relevant 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 relevant units of competency.

Context of Assessment

Assessment may occur on the job or in a workplace simulated facility with relevant process equipment, materials, work instructions and deadlines.

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>	
Unit context	<ul style="list-style-type: none"> OHS requirements include legislation, building codes, material safety management systems, hazardous substances and dangerous goods codes and local safe operating procedures Work is carried out in accordance with legislative obligations, environmental legislation, relevant health regulations, manual handling procedures and organisation insurance requirements
Spray equipment may include:	<ul style="list-style-type: none"> computerised spray system electrostatic spray gun powder coating spray gun air compressor and hoses and dryers
Booths	<p>Booths is a generic term for areas specifically used for the hand or mechanical application of coatings/paint. They may range from a dry filter bath to a purpose-designed, positive-pressure, down-draft water booth</p>
Booth services may include:	<ul style="list-style-type: none"> lighting ventilation electricity supply water supply paint lines consumables storage areas
Tools and equipment may include:	<ul style="list-style-type: none"> liquid containers feeding systems spray guns scrapers (non-ferrous) screwdrivers shifting spanner spanners
Materials to be used may include are not limited to:	<ul style="list-style-type: none"> water solvents other cleaning compounds and chemicals

RANGE STATEMENT	
	<ul style="list-style-type: none"> • rags • steel wool • brushes • hoses • brooms • squeegees
Personal protective equipment	Personal protective equipment is to include that prescribed under legislation, regulations and enterprise policies and practices
Information and procedures	<ul style="list-style-type: none"> • Workplace procedures relating to tools and equipment • Work instructions, including job sheets, plans, drawings and designs • Workplace procedures relating to reporting and communication • Manufacturer specifications and operational procedures

Unit Sector(s)

Unit sector	Furniture Finishing
--------------------	---------------------

Competency field

Competency field	
-------------------------	--

Co-requisite units

Co-requisite units	

