



Australian Government

TLIW2019 Apply surface coatings using a spray gun

Release: 1

TLIW2019 Apply surface coatings using a spray gun

Modification History

Release 1. This is the first release of this unit of competency in the TLI Transport and Logistics Training Package.

Application

This unit involves the skills and knowledge required to use a spray gun to apply surface coatings as part of pallet manufacturing processes, in accordance with regulations and workplace requirements in the transport and logistics industry.

It includes planning the surface coating process, undertaking surface preparation, applying the surface coating and completing workplace operations.

Work is generally performed under some supervision, within a team/group environment.

No licensing, legislative or certification requirements apply to this unit at the time of publication.

Pre-requisite Unit

Not applicable.

Competency Field

W – Equipment and Systems Operations

Unit Sector

Not applicable.

Elements and Performance Criteria

ELEMENTS

Elements describe the essential outcomes.

1 Plan surface coating process

PERFORMANCE CRITERIA

Performance criteria describe the performance needed to demonstrate achievement of the element.

- 1.1 Equipment, accessories and consumables are assembled and checked for applicability to the surface coating task/s
- 1.2 Safety data sheets (SDSs)/material safety data sheets (MSDSs) and/or product application and safety information are read and used to inform work practices
- 1.3 Hazards are identified, risks are assessed and control measures

are implemented

1.4 Surface coating spray gun process techniques, time and safety requirements are noted and used to inform work planning

1.5 Personal protective equipment is used/worn as required

2 Undertake surface preparation

2.1 Characteristics of uncoated/raw material and required surface coating materials are identified and appropriate action is taken to rectify problem/s

2.2 Workplace instructions on surface preparation of materials are followed

2.3 Surface preparation is checked for conformity with required workplace standards

3 Apply surface coating

3.1 Sequence of work is identified maximising potential of applied finish for the production operation

3.2 Equipment and accessories are used in accordance with manufacturer and workplace instructions

3.3 Trial applications of surface materials are made to check spray patterns, equipment operations, materials consistency and specified surface finish

3.4 Surface coating depth and coverage is checked for conformity with specifications

3.5 Surfaces are kept free of contamination

3.6 Faults/problems are identified and appropriate action is undertaken in accordance with workplace procedures

4 Complete workplace operations

4.1 Products are located to storage area or next production stage as required

4.2 Equipment is cleaned prior to storage

4.3 Equipment that is damaged, unserviceable or requiring service is tagged and appropriate steps are taken to arrange repair

4.4 Workplace documentation and records are completed as required

Foundation Skills

Foundation skills essential to performance are explicit in the performance criteria of this unit of competency.

Range of Conditions

Range is restricted to essential operating conditions and any other variables essential to the work environment.

Non-essential conditions can be found in the Companion Volume Implementation Guide.

Unit Mapping Information

This unit replaces and is equivalent to TLIW2019A Apply surface coatings using a spray gun.

Links

Companion Volume implementation guides are found in VETNet -

<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=df441c6e-213d-43e3-874c-0b3f7036d851>

Assessment Requirements for TLIW2019 Apply surface coatings using a spray gun

Modification History

Release 1. This is the first release of this unit of competency in the TLI Transport and Logistics Training Package.

Performance Evidence

Evidence required to demonstrate competence in this unit must be relevant to and satisfy all of the requirements of the elements and performance criteria on at least one occasion and include:

- adapting to differences in equipment in accordance with operating procedures
- applying precautions and required action to minimise, control or eliminate identified hazards
- applying relevant legislation and workplace procedures
- communicating and working effectively with others
- identifying and correctly using relevant equipment
- maintaining spray gun equipment to manufacturer specifications
- modifying activities depending on operational contingencies, risk situations and environments
- monitoring and prioritising work activities in terms of planned schedule
- planning own work, predicting consequences and identifying improvements
- reading, interpreting and following relevant instructions, procedures, information and signs
- reporting and/or rectifying identified problems, faults or malfunctions promptly, in accordance with regulatory requirements and workplace procedures
- selecting and using required personal protective equipment conforming to industry and work health and safety (WHS)/occupational health and safety (OHS) standards
- working systematically with required attention to detail without injury to self or others, or damage to goods or equipment.

Knowledge Evidence

Evidence required to demonstrate competence in this unit must be relevant to and satisfy all of the requirements of the elements and performance criteria and include knowledge of:

- application of relevant hydraulic, mechanical and pneumatic principles to the spray process
- characteristics of the materials in terms of toxicity, reactivity, flammability, required viscosity and re-coatability
- effects of fumes, heat and other radiations
- features and hazards of spray gun equipment for pallet production and the precautions and procedures that should be followed in its use
- housekeeping standards and procedures
- methods for preventing contamination of surfaces during and after surface coating
- operational work systems, equipment, management and site operating systems for applying surface coatings using a spray gun as part of pallet production
- problems that may occur and appropriate action that can be taken to resolve these problems
- regulations relevant for applying surface coatings using spray gun equipment
- relevant WHS/OHS and environmental protection procedures and guidelines
- site layout and obstacles
- workplace procedures and policies for applying surface coatings using spray gun equipment as part of pallet production.

Assessment Conditions

As a minimum, assessors must satisfy applicable regulatory requirements, which include requirements in the *Standards for Registered Training Organisations* current at the time of assessment.

As a minimum, assessment must satisfy applicable regulatory requirements, which include requirements in the *Standards for Registered Training Organisations* current at the time of assessment.

Assessment must occur in workplace operational situations where it is appropriate to do so; where this is not appropriate, assessment must occur in simulated workplace operational situations that replicate workplace conditions.

Assessment processes and techniques must be appropriate to the language, literacy and numeracy requirements of the work being performed and the needs of the candidate.

Resources for assessment include:

- a range of relevant exercises, case studies and/or simulations
- applicable documentation including workplace procedures, regulations, codes of practice and operation manuals
- relevant materials, tools, equipment and personal protective equipment currently used in industry.

Links

Companion Volume implementation guides are found in VETNet -

<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=df441c6e-213d-43e3-874c-0b3f7036d851>