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## Overview

This standard identifies the competences you need to apply surface finishes to marine woodwork assemblies or installations by hand methods, in accordance with approved procedures. You will be required to select the appropriate equipment to use, based on the materials to be applied and the surface area to be covered. You will be expected to use the specified or appropriate techniques to seal, prime, colour, varnish, stain, wax or polish the various parts, using brushes, rollers, pads or cloths, as applicable to the task.

Your responsibilities will require you to comply with organisational policy and procedures for the surface treatment activities undertaken and to report any problems with the finishing activities, components or equipment that you cannot personally resolve, or are outside your permitted authority, to the relevant people. You will be expected to work with a minimum of supervision, taking personal responsibility for your own actions and for the quality and accuracy of the work that you carry out.

Your underpinning knowledge will provide a good understanding of your work and will provide an informed approach to applying hand finishing techniques and procedures to marine woodwork assemblies or installations. You will understand the finishing procedures used and their application and will know about the finishing techniques, paints or coatings and equipment used, in adequate depth to provide a sound basis for carrying out the activities and ensuring that the work is carried out to the required quality.

You will understand the safety precautions required when carrying out the finishing operations. You will be required to demonstrate safe working practices throughout and will understand the responsibility you owe to yourself and others in the workplace.

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## Performance criteria

### You must be able to:

1. work safely at all times, complying with health and safety and other relevant regulations, directives and guidelines
2. ensure the material surfaces to be treated are suitably prepared for the finishing operations to be carried out
3. check that the finishing equipment and treatment solutions are set up and maintained at satisfactory operating conditions and levels
4. carry out the treatment process in accordance with operating procedures and the component specification
5. ensure that the treated workpiece achieves the required characteristics and meets the finishing specification
6. deal promptly and effectively with problems within your control and report those that cannot be solved
7. dispose of waste and excess materials in line with agreed organisational procedures
8. shut down the finishing equipment to a safe condition on completion of the processing activities
9. complete relevant documentation in line with organisational procedures

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## Knowledge and understanding

### You need to know and understand:

1. the specific safety precautions to be taken whilst carrying out the application of paint and other surface finishes (including any specific legislation, regulations or codes of practice relating to the activities, equipment or materials)
2. the health and safety requirements of the work area in which you are carrying out the finishing activity and the responsibility they place on you
3. how to recognise and deal with emergencies and the procedures to be followed (such as methods of safely evacuating and closing down of compartments in the case of fire or other major incident, first aid, fire fighting and resuscitation of personnel)
4. the hazards associated with carrying out hand painting and finishing activities in a marine environment and with the materials and equipment used and how they can be minimised
5. the personal protective equipment and clothing (PPE) to be worn during the finishing activity
6. the various types of specifications that are used during the finishing activity
7. how to carry out currency/issue checks of the specifications you are working with
8. the range of surface finishes that can be applied and the types of surfaces for which they are best suited
9. the preparation methods and techniques to be undertaken prior to finishing for filling and flatting
10. the surface treatment methods and techniques to be undertaken prior to finishing
11. how to determine quantities of finishing materials required and where applicable, mixing ratios
12. the preparation methods and techniques for mixing paints, varnishes, lacquers, stains and polishes
13. the various methods of applying the required finishes using brushes, rollers, paint pads and cloths
14. the procedures for the transportation and storage of finishing materials
15. the equipment care and control procedures (such as fume extraction systems)
16. cleaning and maintenance procedures for brushes and rollers
17. the procedures for dealing with waste materials
18. recognition of defects (such as bubbles, contamination, runs and other surface defects)
19. the problems that can occur with the finishing operations and how these can be overcome

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- 20. the standards to be attained and the company/customer quality control procedures
  - 21. the extent of your own responsibility and whom you should report to if you have problems that you cannot resolve

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## Scope/range related to performance criteria

1. Carry out all of the following during the finishing of the wooden assemblies:
  1. obtain and follow the relevant job instructions and finishing/treatment specifications
  2. comply with relevant COSHH requirements and risk assessments
  3. prepare the tools and materials in readiness for the finishing operations
  4. wear suitable protective clothing and where appropriate, breathing apparatus
  5. clean all tools and equipment on completion of the finishing activities
  6. leave the work area in a safe condition and to the prescribed category of cleanliness
2. Apply finishes to four of the following:
  1. bulkheads
  2. helm consoles
  3. bunks
  4. navigational consoles
  5. furniture units
  6. doors and door frame mouldings
  7. top boxes
  8. other specific marine assemblies
3. Prepare to carry out the finishing operations by carrying out seven of the following activities:
  1. cleaning
  2. masking
  3. mixing of colour
  4. stripping old finishes
  5. flattening down
  6. pre-surface treatments
  7. mixing primers
  8. re-activating treatments
  9. sealing
4. Apply six types of the following finishing materials, using appropriate hand tools and techniques:
  1. sanding sealer

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2. polyurethane varnish
  3. french polish
  4. water based paints
  5. lacquer
  6. temporary protective coatings
  7. oil/alkyd based paints
  8. stain
  9. gilding
  10. synthetic paints
  11. wax
  12. other specific special finishes
5. Apply finishes to a range of surfaces, to include all of the following:
1. flat
  2. horizontal
  3. vertical
  4. overhead
  5. curved or cylindrical
6. Use three of the following consumables:
1. masking medium/tape
  2. rubbing paper
  3. abrasive pads
  4. cleaning materials
7. Apply finishes which comply with all of the following quality and accuracy standards:
1. is in line with specification or job requirements
  2. achieves acceptable colour match and gloss levels
  3. is free from runs, drips or other surface defects
  4. meets customer/company requirements

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## Behaviours

### **Behaviours:**

You will be able to apply the appropriate behaviours required in the workplace to meet the job profile and overall company objectives, such as:

- strong work ethic
- positive attitude
- team player
- dependability
- responsibility
- honesty
- integrity
- motivation
- commitment

SEMME3139

Finishing marine wooden assemblies by applying surface treatments



Developed by	Enginuity
Version Number	3
Date Approved	31 Mar 2019
Indicative Review Date	29 Apr 2021
Validity	Current
Status	Original
Originating Organisation	Semta
Original URN	SEMME3139
Relevant Occupations	Marine Engineering Trades
Suite	Marine Engineering Suite 3
Keywords	engineering; marine; finish; wood; wooden; assemblies; surface treatments; sealant; stain; varnish; wax