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## Overview

This standard identifies the competences you need to install sponson assemblies and components to the rigid inflatable boat (RIB), in accordance with approved procedures. You will be required to select the appropriate tools and equipment to use, based on the operations to be performed and the assemblies and ancillary equipment to be installed.

You will be required to select the appropriate or specified fixing methods and devices, based on the assemblies and components being installed, and the materials to which they are being fastened. You will also be expected to create or follow all necessary datums that are required to locate the assemblies and components correctly during the installation activities. The installation activities will include making all necessary checks and adjustments to ensure that the components and assemblies are correctly positioned and aligned and, where appropriate, that they function correctly.

Your responsibilities will require you to comply with organisational policy and procedures for the installation activities undertaken, and to report any problems with the installation activities, components or equipment that you cannot personally resolve, or are outside your permitted authority, to the relevant people. You will be expected to ensure that all tools, equipment and materials used in the installation activities are correctly accounted for on completion of the activities, and to complete all necessary job/task documentation accurately and legibly. 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 installation techniques and procedures. You will understand the items being installed, and will know about the relevant fastening and securing methods, in adequate depth to provide a sound basis for carrying out the activities, correcting faults and ensuring that the final installation is to the required specification.

You will understand the safety precautions required when carrying out the installation operations, especially when working in confined spaces, and when using adhesives and sealing materials. 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. follow all relevant drawings and specifications for the installation being carried out
3. use the correct tools and equipment for the installation operations and check that they are in a safe, tested and usable condition
4. install, position and secure the assembly and components in accordance with the specification
5. deal promptly and effectively with problems within your control and report those that cannot be solved
6. check that the installation is complete and that all components are free from damage
7. complete relevant documentation in line with organisational procedures

## Knowledge and understanding

### You need to know and understand:

1. the specific safety practices and procedures that you need to observe when installing assemblies components and assemblies (including any specific legislation, regulations/codes of practice for the activities, equipment or materials)
2. the health and safety requirements of the work area where you are carrying out the installation activities, and the responsibility they place on you
3. the hazards associated with installing sponson assemblies and components, and with the tools and equipment used, and how they can be minimised
4. the protective equipment that you need to use for both personal protection (PPE) and protection of other people in the near vicinity
5. how to obtain the necessary job instructions, installation drawings or installation specifications required for the work being carried out
6. how to carry out currency/issue checks of the specifications you are working with
7. the terminology used for the sub-assemblies; how to recognise the sub-assemblies and components and how to interpret the labelling
8. the tools and equipment used in the installation activities, and how to check that they are in a safe, tested and usable condition
9. the need to check that all plugs, sockets and cables on extension leads are in a safe, tested and undamaged condition (where applicable)
10. the preparation activities that are required to the RIB prior to installing the sponson assembly and components
11. the methods and equipment to be used for lifting, handling, supporting and manoeuvring the sub-assemblies into their correct positions during the installation activities
12. the tools and equipment that can be used to set up and level the assemblies and the techniques used to position, align, adjust and secure the components to the required surfaces without causing damage to the RIB structure or surrounding areas
13. the importance of positional accuracy
14. the various types of fixing methods that are used to secure the structures to the required surfaces
15. the importance of using the correct procedures for the particular installation
16. procedures for obtaining the correct type of tools, equipment, components
17. how to conduct any necessary checks to ensure the integrity, functionality, accuracy and quality of the installation
18. how to recognise installation defects (such as misalignment,

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- ineffective bonding, damage or contamination)
  - 19. the problems that can occur with the installation operations and how these can be overcome
  - 20. the standards to be attained and the company/customer quality control procedures
  - 21. the procedures to be used for the safe disposal of waste materials
  - 22. the recording documentation to be completed for the installation activities
  - 23. 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 installation of the sponson components and assemblies:
  1. obtain and use appropriate, installation drawings, instructions, sketches or specifications
  2. adhere to relevant COSHH requirements, risk assessments and other relevant safety standards
  3. check that all tools and equipment used during the installation are in a safe, tested and usable condition
  4. ensure that the work area is free from hazards and that there is sufficient room to complete the installation
  5. undertake any preparation activities required prior to installing the sponson components and assemblies
  6. return all tools and equipment to the correct location on completion of the activities
  7. leave the work area in a safe condition and to the prescribed category of cleanliness
2. Install three of the following attachment techniques:
  1. straight cut tapes
  2. curved bias cut tapes
  3. internally mounted tapes
  4. 'V' tapes
  5. bolt rope
3. Use a range of tools and equipment during the installation, to include ten of the following:
  1. supporting/lifting equipment
  2. spanners/socket sets
  3. spatulas
  4. screwdrivers
  5. torque wrenches
  6. power tools (such as sanders)
  7. knives
  8. tape measure
  9. drills
  10. clamps
  11. seam rollers
  12. ratchet straps
4. Apply installation methods and techniques, to include all of the

following:

1. positioning and aligning
  2. levelling
  3. securing
  4. masking and abrading
  5. bonding
5. Check installed components and assemblies comply with all of the following:
1. dimensional accuracy is within specification/job requirements
  2. installed assemblies are correctly aligned, level and secure
  3. ancillary components correctly fitted
  4. the installation meets company/customer 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

SEMME3284

Installing sponson assemblies onto the rigid inflatable boat (RIB)



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Developed by	Enginuity
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Version Number	2
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Date Approved	28 Feb 2019
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Indicative Review Date	28 Feb 2021
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Validity	Current
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Status	Original
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Originating Organisation	Semta
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Original URN	SEMME3284
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Relevant Occupations	Marine Engineering Trades
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Suite	Marine Engineering Suite 3
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Keywords	Engineering; marine; rigid inflatable boat; RIB; sponson assemblies; install
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