

|               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  |
|---------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| 1. Title      | Supervise ship repairs and demolition works                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  |
| 2. Code       | EMSRSH401A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |
| 3. Range      | Supervise and manage the safe undertaking of ship repairs and demolition works (including marine construction) by workers and adopt appropriate contingency measures and issue relevant guidelines to frontline workers.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |  |
| 4. Level      | 4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |  |
| 5. Credit     | 6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |  |
| 6. Competency | <p style="text-align: center;"><u>Performance Requirements</u></p> <p>6.1 Understand the concerns for ship management and relevant safety legislations</p> <ul style="list-style-type: none"> <li>◆ Understand the characteristics of ship repairs and demolition works</li> <li>◆ Understand the causes of accidents and their precautions</li> <li>◆ Understand the basic principles of risk assessment</li> <li>◆ Understand the concerns related to shipboard safety and safety in working environment, including: <ul style="list-style-type: none"> <li>• Boarding facilities and cabin passage</li> <li>• Safety concerns related to position shift of ships</li> <li>• Safety concerns related to work at height, near water level and under water level</li> </ul> </li> <li>◆ Understand the hazards in open waters</li> <li>◆ Maintain the stability of ships at work</li> <li>◆ Understand legislations related to safety for ship repairs and demolition works <ul style="list-style-type: none"> <li>• Chapter 548 - Merchant Shipping (Local Vessels) Ordinance and Regulations</li> <li>• Chapter 13 - Shipping and Port Control Ordinance and Regulations</li> <li>• Offences and penalties</li> <li>• General duties of employers, subject officers and employees</li> <li>• Code of practice and other relevant codes and guidelines issued by marine department</li> </ul> </li> </ul> <p>6.2 Supervise the safe operation of routine works</p> <ul style="list-style-type: none"> <li>◆ Supervise the safe handling of materials and equipment, including: <ul style="list-style-type: none"> <li>• Safe handling of dangerous goods and harmful materials</li> <li>• Manual lifting and handling</li> <li>• Safe operation of slings</li> <li>• Giving signals</li> <li>• Stowing and stacking</li> </ul> </li> </ul> |  |

|                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                        | <ul style="list-style-type: none"> <li>◆ Supervise the safe use of mechanical equipment and devices, including: <ul style="list-style-type: none"> <li>• Safe use of electrical equipment, power tools, hand tools and pressure equipment</li> <li>• Basic operation and principles of lifting appliances</li> <li>• Limitations and hazards associated with lifting appliances</li> <li>• Inspection and maintenance of lifting appliances</li> <li>• Relevant legal requirements on lifting appliances and gear, and duties of qualified persons</li> </ul> </li> <li>◆ Supervise the safe operation of ship repairs and demolition works, including: <ul style="list-style-type: none"> <li>• Safe operation on deck, in cabins, engine compartments and confined spaces</li> <li>• Concerns related to welding, flame cutting and other hot work</li> <li>• Fire prevention and extinguishing equipment</li> <li>• Concerns related to spray painting, sand blasting, water-jetting and pressure equipment</li> </ul> </li> </ul> <p>6.3 Analyze emergencies and adopt contingency measures</p> <ul style="list-style-type: none"> <li>◆ Take contingency measures according to actual situations, including: <ul style="list-style-type: none"> <li>• Emergency procedures</li> <li>• Reporting accidents</li> <li>• First aid facilities</li> </ul> </li> <li>◆ Issue safety guidelines to workers, including: <ul style="list-style-type: none"> <li>• Operation of fire extinguishers</li> <li>• Use of safety belts and arresters</li> <li>• Operation of cranes and use of signals</li> <li>• Use of life-jackets and life-buoys</li> </ul> </li> <li>◆ Compile analytical reports of emergencies</li> </ul> |
| 7. Assessment Criteria | <p>The integrated outcome requirements of this unit of competency are:</p> <ul style="list-style-type: none"> <li>(i) Capable to supervise and manage the undertaking of routine ship repairs, demolition and marine construction works by frontline workers in safe conditions; and</li> <li>(ii) Capable to assess risks and make analysis and adopt contingency measures in case of emergency.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| 8. Remarks             | <p>The credit value of this unit of competency is set on the presumption that the person already possesses basic knowledge of ship safety legislations (such as EMSRSH101A “Follow relevant codes of practice at workplaces, on environmental protection, and on occupational safety and health”), ship management and report writing, and experience of general ship repairs.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |