

1. Title	Hull-stability examination and inclination test									
2. Code	EMSRLT303A									
3. Range	Perform inspections or commissioning of ships at test sites for stability and inclination, and consolidate relevant data for test reference. The competency in this unit is applicable to inspections and commissioning related to regular ship repairs, such as assisting in planning test arrangements and implementing the tests.									
4. Level	3									
5. Credit	3									
6. Competency	<p style="text-align: center;"><u>Performance Requirements</u></p> <table border="0"> <tr> <td style="vertical-align: top;">6.1</td> <td style="vertical-align: top;">Basic knowledge of lateral , longitudinal stability technology</td> <td style="vertical-align: top;"> <ul style="list-style-type: none"> ◆ Know about basic lateral movement, longitudinal and lateral change of drive centre, including: <ul style="list-style-type: none"> • centre of buoyancy • righting moment • effect of ship loading condition, hanging weight or free surface on lateral stability ◆ Understand the effect of changes in water density on draught </td> </tr> <tr> <td style="vertical-align: top;">6.2</td> <td style="vertical-align: top;">Methods of hull stability examination and inclination test</td> <td style="vertical-align: top;"> <ul style="list-style-type: none"> ◆ Use inclination test technology to perform ship stability-tests and consider the effect of ship in drydocking on its draught and stability </td> </tr> <tr> <td style="vertical-align: top;">6.3</td> <td style="vertical-align: top;">Professionalism in hull stability examination and inclination test</td> <td style="vertical-align: top;"> <ul style="list-style-type: none"> ◆ perform the test according to inclining experiment /steps, and use appropriate illustration to make a summary report on the ship stability test </td> </tr> </table>	6.1	Basic knowledge of lateral , longitudinal stability technology	<ul style="list-style-type: none"> ◆ Know about basic lateral movement, longitudinal and lateral change of drive centre, including: <ul style="list-style-type: none"> • centre of buoyancy • righting moment • effect of ship loading condition, hanging weight or free surface on lateral stability ◆ Understand the effect of changes in water density on draught 	6.2	Methods of hull stability examination and inclination test	<ul style="list-style-type: none"> ◆ Use inclination test technology to perform ship stability-tests and consider the effect of ship in drydocking on its draught and stability 	6.3	Professionalism in hull stability examination and inclination test	<ul style="list-style-type: none"> ◆ perform the test according to inclining experiment /steps, and use appropriate illustration to make a summary report on the ship stability test
6.1	Basic knowledge of lateral , longitudinal stability technology	<ul style="list-style-type: none"> ◆ Know about basic lateral movement, longitudinal and lateral change of drive centre, including: <ul style="list-style-type: none"> • centre of buoyancy • righting moment • effect of ship loading condition, hanging weight or free surface on lateral stability ◆ Understand the effect of changes in water density on draught 								
6.2	Methods of hull stability examination and inclination test	<ul style="list-style-type: none"> ◆ Use inclination test technology to perform ship stability-tests and consider the effect of ship in drydocking on its draught and stability 								
6.3	Professionalism in hull stability examination and inclination test	<ul style="list-style-type: none"> ◆ perform the test according to inclining experiment /steps, and use appropriate illustration to make a summary report on the ship stability test 								
7. Assessment Criteria	<p>The integrated outcome requirement of this unit of competency is:</p> <p>(i) Capable to systematically and efficiently finish hull-stability examination and inclination test, including correctly implementing relevant test procedures, using testing tools and equipment, recording and processing data, and using the data to clearly demonstrate the test results.</p>									
8. Remarks	The credit value of this unit of competency is set on the presumption that the person already possesses basic knowledge of inspection and testing.									