

1. Title	Install fire pumps
2. Code	EMFSIN305A
3. Range	Master knowledge of fire pump installation and, in predictable and structured situations, perform installation tasks at general fire service work sites or locations where installation of fire pumps is involved.
4. Level	3
5. Credit	3
6. Competency	<p style="text-align: center;"><u>Performance Requirements</u></p> <p>6.1 Knowledge of fire pump installation</p> <ul style="list-style-type: none"> <li>◆ Understand the installation requirements for various types of fire pumps when reading assembly drawings: <ul style="list-style-type: none"> <li>• Requirements for pump foundations</li> <li>• Requirements for couplings</li> <li>• Requirements for the pump inlet and outlet system</li> </ul> </li> </ul> <p>6.2 Methods and procedures for installation of fire pumps</p> <ul style="list-style-type: none"> <li>◆ Use alignment and levelling instruments to take measurements of a fire pump and its motor foundation, including: <ul style="list-style-type: none"> <li>• Methods of alignment and levelling and calculation of adjustments</li> <li>• Methods of centring and calculation of adjustments</li> </ul> </li> <li>◆ Use various types of levelling and alignment instruments, such as level gauges and steel wire, to take measurements on-site, including: <ul style="list-style-type: none"> <li>• Horizontal level of foundation surface</li> <li>• Vertical level of foundation bolts</li> </ul> </li> <li>◆ Draw the layout of supporting frame according to the dimensions of the equipment base</li> <li>◆ Measure and adjust the radial movement of couplings</li> <li>◆ Fasten foundation bolts according to specification</li> <li>◆ Inspect the moving parts of various types of fire pumps after fastening, and conduct functional tests after installation</li> <li>◆ Compile reports on installation of fire pumps</li> <li>◆ State clearly the operation conditions of fire pumps</li> </ul> <p>6.3 Professionalism in fire pump installation</p> <ul style="list-style-type: none"> <li>◆ Install fire pumps according to drawings and works specifications</li> <li>◆ Control the progress of installation to meet works specifications and quality standards</li> <li>◆ Understand the legal requirements on work safety, the code of practice and the supplier's guidelines when performing tasks of fire pump installation</li> </ul>

<p>7. Assessment Criteria</p>	<p>The integrated outcome requirements of this unit of competency are:</p> <ul style="list-style-type: none"> <li>(i) Capable to install fire pumps effectively in predictable and structured situations;</li> <li>(ii) Capable to complete work tests, including proper execution of leveling and alignment procedures and installation procedures, recording data and adjusting of equipment to required standards; and</li> <li>(iii) Capable to compile reports on installation of fire pumps and state clearly their operation.</li> </ul>
<p>8. Remarks</p>	<p>The credit value of this unit of competency is set on the presumption that the person already possesses basic knowledge of mechanics and installation skills.</p>