

1. Title	Perform oxy-acetylene welding(OAW) / oxyfuel and arc cutting(OAC) according to drawings									
2. Code	EMCUIN323A									
3. Range	Perform OAW / OAC tasks according to drawings at electrical and mechanical welding workshops or work sites.									
4. Level	3									
5. Credits	4									
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;">Code of safety and preparations for OAW / OAC</td> <td style="vertical-align: top;"> <ul style="list-style-type: none"> <li>◆ Understand the code of safety for OAW / OAC</li> <li>◆ Know about the preparations for OAW / OAC</li> <li>◆ Understand functions of various OAW / OAC equipment, including high pressure cylinder, pressure regulator, flashback arrestor, welding torch and cutting torch, etc.</li> <li>◆ Understand the OAW / OAC technical requirements on welding materials (e.g. welding rods, welding flux etc.)</li> <li>◆ Read the drawings correctly (including symbolisation of welding symbol and welding processes)</li> </ul> </td> </tr> <tr> <td style="vertical-align: top;">6.2</td> <td style="vertical-align: top;">Perform OAW / OAC according to drawings</td> <td style="vertical-align: top;"> <ul style="list-style-type: none"> <li>◆ Estimate the impact of welding procedures on the dimensions of work piece</li> <li>◆ Perform assembly ( including root opening, tack weld and anti-distortion procedure) according to the drawing</li> <li>◆ Perform visual examination on weld profile</li> </ul> </td> </tr> <tr> <td style="vertical-align: top;">6.3</td> <td style="vertical-align: top;">Professionalism in handling OAW / OAC</td> <td style="vertical-align: top;"> <ul style="list-style-type: none"> <li>◆ Perform OAW / OAC tasks according to relevant safety guidelines and code of practice</li> </ul> </td> </tr> </table>	6.1	Code of safety and preparations for OAW / OAC	<ul style="list-style-type: none"> <li>◆ Understand the code of safety for OAW / OAC</li> <li>◆ Know about the preparations for OAW / OAC</li> <li>◆ Understand functions of various OAW / OAC equipment, including high pressure cylinder, pressure regulator, flashback arrestor, welding torch and cutting torch, etc.</li> <li>◆ Understand the OAW / OAC technical requirements on welding materials (e.g. welding rods, welding flux etc.)</li> <li>◆ Read the drawings correctly (including symbolisation of welding symbol and welding processes)</li> </ul>	6.2	Perform OAW / OAC according to drawings	<ul style="list-style-type: none"> <li>◆ Estimate the impact of welding procedures on the dimensions of work piece</li> <li>◆ Perform assembly ( including root opening, tack weld and anti-distortion procedure) according to the drawing</li> <li>◆ Perform visual examination on weld profile</li> </ul>	6.3	Professionalism in handling OAW / OAC	<ul style="list-style-type: none"> <li>◆ Perform OAW / OAC tasks according to relevant safety guidelines and code of practice</li> </ul>
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7. Assessment Criteria	<p>The integrated outcome requirement of this unit of competency is:</p> <p>(i) Capable to perform OAW / OAC at flat position, at horizontal position, at vertical up position and at overhead positions according to drawings.</p>									
8. Remarks	This unit of competency is suitable for enhancing the competency of electrical and mechanical welding practitioners. The credit value of this unit of competency is set on the presumption that the person already possesses the competency of EMCUIN226A “Basic oxy-acetylene welding (OAW) / oxyfuel and arc cutting (OAC)”.									