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| 1. Title               | Perform weld joint edge production and assembly according to drawings   |
| 2. Code                | EMCUIN320A  |
| 3. Range               | Perform weld joint edge production and assembly according to drawings in electrical and mechanical welding workshops or work sites.   |
| 4. Level               | 3   |
| 5. Credits             | 15  |
| 6. Competency          | <p style="text-align: center;"><u>Performance Requirements</u></p> <p>6.1 Weld joint</p> <ul style="list-style-type: none"> <li>◆ Understand the effects of different weld joint parameters on weld profile, such as the bevel angle, groove angle, radius of root, land, depth of bevel, groove face, root face, etc., especially the effect of additional backing plate on the weld quality</li> <li>◆ Understand basic classification of weld e.g. groove weld, fillet weld, plug weld, slot weld, etc.</li> <li>◆ Understand the methods of production of weld joint and choose appropriate cutting tools for joint edge preparation, such as oxyacetylene cutting, plasma arc cutting, air-carbon arc cutting, etc.</li> <li>◆ Understand the code of safety for weld joint edge production and assembly</li> </ul> <p>6.2 Perform weld joint edge production and assembly according to drawings</p> <ul style="list-style-type: none"> <li>◆ Use joint edge production methods and techniques safely to perform weld joint edge production and assembly according to drawings</li> <li>◆ Use all checking and measuring tools to check the quality and dimensions of major parts of weld joints according to the details of drawings to see if they meet the engineering requirements</li> </ul> <p>6.3 Professionalism in weld joint edge production and assembly according to drawings</p> <ul style="list-style-type: none"> <li>◆ Follow the safety instructions and code of practice for weld joint edge production and assembly to perform basic weld joint edge production and assembly according to drawings</li> </ul> |
| 7. Assessment Criteria | <p>The integrated outcome requirement of this unit of competency is:</p> <p>(i) Capable to follow the safety instructions and code of practice for weld joint edge production and assembly to perform weld joint edge production and assembly according to drawings.</p>  |
| 8. Remarks             | The credit value of this unit of competency is set on the presumption that the person already possesses the competency of EMCUIN227A “Basic weld joint edge production and assembly”.   |