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| 1. Title | Install and lay gas mains (electro fusion method) |
| 2. Code | EMGAIT203A |
| 3. Range | Use electro fusion method to install and lay polyethylene (PE) gas mains in general road environment. |
| 4. Level | 2 |
| 5. Credits | 6 |
| 6. Competency | <p style="text-align: center;"><u>Performance Requirements</u></p> <p>6.1 Knowledge and principles of installing and laying gas mains (electro fusion method)</p> <ul style="list-style-type: none"> ◆ Understand the properties and range of application of PE gas mains ◆ Operate diesel power generator correctly ◆ Operate pneumatic tools correctly ◆ Distinguish different public utilities ◆ Understand underground public utilities plans ◆ Know about the requirements for working in confined spaces ◆ Work safely in trenches underground <p>6.2 Methods and procedures of installing and laying gas mains (electro fusion method)</p> <ul style="list-style-type: none"> ◆ Use the electro fusion method and relevant equipment correctly to connect PE pipes ◆ Set appropriate safety distance, pipe depth and locations for installation according to properties of soil aboveground and underground and surrounding pipework conditions ◆ Select suitable pipe support and protective measures according to the design and individual environment in application ◆ Explain the working drawing of the gas network clearly and put on record the work completed |

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| | <p>6.3 Professional knowledge and responsibilities for installing and laying gas mains (electro fusion method)</p> <ul style="list-style-type: none"> ◆ Apply basic legislations and regulations relevant to underground public utilities installation ◆ Apply the industrial safety knowledge relevant to gas main laying works |
| <p>7. Assessment Criteria</p> | <p>The integrated outcome requirement of this unit of competency is:</p> <p>(i) Capable to use electro fusion method to install and lay polyethylene (PE) gas mains in general road environment.</p> |
| <p>8. Remarks</p> | <p>The credit value of this unit of competency is set on the presumption that the person already possesses the competency of EMGADE101A 【Basic knowledge of gas application】 .</p> |