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| 1. Title | Perform basic installation of power supply and control equipment of water supply systems | | | | | | | | | |
| 2. Code | EMPDIN203A | | | | | | | | | |
| 3. Range | Perform basic installation of power supply and control equipment of water supply systems at workshops or equipment installation points. | | | | | | | | | |
| 4. Level | 2 | | | | | | | | | |
| 5. Credits | 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;">Know about the functions and basic installation techniques for power supply and control equipment of water supply systems</td> <td style="vertical-align: top;"> <ul style="list-style-type: none"> ◆ Understand the construction and functions of general power supply and control equipment of water supply systems such as: <ul style="list-style-type: none"> • Indirect water supply systems (including fresh water and flush water) • Pressurized water supply system • Variable speed water pump water supply system ◆ Capable to read simple installation drawings of power supply and control equipment of water supply systems ◆ Understand basic installation requirements and specifications of such equipment </td> </tr> <tr> <td style="vertical-align: top;">6.2</td> <td style="vertical-align: top;">Basic installation procedures and methods for power supply and control equipment of water supply systems</td> <td style="vertical-align: top;"> <ul style="list-style-type: none"> ◆ Master basic installation procedures and methods for power supply and control equipment of water supply systems, including the procedures of material checking, cleaning, assembly, adjustment and simple testing ◆ Assist in installing power supply and control equipment of water supply systems and accessories ◆ Install and set distribution board, wire, conduit, switchgear, control panel, pump motor starter, relay and indicator light, etc. at suitable locations under supervision ◆ Use general workshop and worksite equipment and tools correctly, e.g. threading tools for conduits, electric drill, bench fitting tools and multi-meter ◆ Use basic testing tools to assist the performance of functional tests after installation </td> </tr> <tr> <td style="vertical-align: top;">6.3</td> <td style="vertical-align: top;">Professionalism in installing power supply and control equipment of water supply systems</td> <td style="vertical-align: top;"> <ul style="list-style-type: none"> ◆ Perform basic installation of power supply and control equipment of water supply systems according to installation instructions ◆ Understand the safety guidelines as required by the law and the code of practice in undertaking basic installation of power supply and control equipment of water supply systems </td> </tr> </table> | 6.1 | Know about the functions and basic installation techniques for power supply and control equipment of water supply systems | <ul style="list-style-type: none"> ◆ Understand the construction and functions of general power supply and control equipment of water supply systems such as: <ul style="list-style-type: none"> • Indirect water supply systems (including fresh water and flush water) • Pressurized water supply system • Variable speed water pump water supply system ◆ Capable to read simple installation drawings of power supply and control equipment of water supply systems ◆ Understand basic installation requirements and specifications of such equipment | 6.2 | Basic installation procedures and methods for power supply and control equipment of water supply systems | <ul style="list-style-type: none"> ◆ Master basic installation procedures and methods for power supply and control equipment of water supply systems, including the procedures of material checking, cleaning, assembly, adjustment and simple testing ◆ Assist in installing power supply and control equipment of water supply systems and accessories ◆ Install and set distribution board, wire, conduit, switchgear, control panel, pump motor starter, relay and indicator light, etc. at suitable locations under supervision ◆ Use general workshop and worksite equipment and tools correctly, e.g. threading tools for conduits, electric drill, bench fitting tools and multi-meter ◆ Use basic testing tools to assist the performance of functional tests after installation | 6.3 | Professionalism in installing power supply and control equipment of water supply systems | <ul style="list-style-type: none"> ◆ Perform basic installation of power supply and control equipment of water supply systems according to installation instructions ◆ Understand the safety guidelines as required by the law and the code of practice in undertaking basic installation of power supply and control equipment of water supply systems |
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| 7. Assessment Criteria | The integrated outcome requirement of this unit of competency is: (i) Capable to complete basic installation of power supply and control equipment of water supply systems systematically and efficiently; and (ii) Capable to undertake basic installation of power supply and control equipment of water supply systems according to the code of practice of the trade. |
| 8. Remarks | This unit of competency is applicable to practitioners engaged in the installation of power supply and control equipment of water supply systems. |