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| 1. Title | Master data and information to conduct analyses on electrical engineering projects |
| 2. Code | EMELDE313A |
| 3. Range | Applicable to tasks related to electrical projects. Make reference to regulations, international standards, data and information provided by professional organizations like engineering institutions, etc., and skillfully use various types of different and non-common data and information obtained at work sites for electrical engineering calculations and analyses of familiar engineering projects. |
| 4. Level | 3 |
| 5. Credit | 6 |
| 6. Competency | <u>Performance Requirements</u><br><br>6.1 Master necessary power system data and information<br>♦ Make reference to publications of government, research bodies, engineering institutions, etc. and master relevant data and information including:<br>• Power demand distribution of different buildings<br>• Safety and stability of electrical equipment<br>• Durability<br>• Power consumption of different loads<br>• Energy efficiency of electrical equipment<br><br>6.2 Use relevant power system data and information to conduct analyses on engineering projects<br>♦ Use various types of different and non-common data and information obtained at work sites for calculations and analyses of electrical projects, including the following areas:<br>• Maximum power demand of the installation<br>• Area and locations for transformer room, main switch room, meter room, electrical pipes and backup generator room<br>• Safety facilities and backup power supply<br>• Size of backup generator<br>• Energy consumption of electrical and mechanical facilities<br>• Human resources and costs required in every stage of the project<br>• Time required for preliminary study, design, work implementation, testing and commissioning for the project<br>• Human resources and costs involved in operation, repair and maintenance after completion of project<br>• Quality assurance data |

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| 7. Assessment Criteria | The integrated outcome requirement of this unit of competency is:<br>(i) Capable to use data and information to analyze works and specified areas of the engineering project. |
| 8. Remarks | |