

## Assessment Scheme

**Subject:** 683 - Electrical and Energy Engineering    **Area of Studies:** Engineering and Production    **Course Provider:** Vocational Training Council

Task No.	Task Name	Assessment Method	Brief Task Description	Assessment / Submission Date	Contribution to Final Score (%)
1	Interior Lighting Design Practice	Written Report	Students are required to complete a lighting design for an interior space using computer software and submit a report.	October Year 1	5%
2	Integrated Assessment on Electrical Principles	Experiment, Written Report and Test	Students in groups are required to conduct an experiment on electrical principles, and submit an individual report with analysis of the experiment results. Students are required to complete a written test on electrical principle which consisting of multiple-choice questions and short questions.	November Year 1	10%
3	Test on Fundamental Electrical Principles	Written Test	Students are required to complete a test on fundamental electrical principles. Question types include multiple-choice questions, short questions and long questions.	December Year 1	10%
4	Smart Home Prototype Making	Prototype Making and Oral Presentation	Students working in groups are required to design and build a prototype on Smart Home. Each student will then give an oral presentation of about 5 minutes.	March Year 1	20%
5	Integrated Assessment on Electrical Installation and Power System	Practical Assessment, Written Report and Test	Students in groups are required to carry out circuit design, wiring, testing and commissioning for an assigned electrical installation task. Students are required to complete a written test on electrical installation and power system which consisting of multiple-choice questions and short questions.	May Year 1	15%
6	Test on Electronic Principles, Power Supply System and Tariff	Written Test	Students are required to complete a test on basic electronic principles, power supply system and tariff. Question types include multiple-choice questions, short questions and long questions.	June Year 1	10%
7	Implementation Project	Project Proposal, Written Reports, Prototype Making and Oral Presentation	Students in groups are required to decide on a topic of project on one of the following areas: <ul style="list-style-type: none"> <li>Renewable energy system</li> <li>Smart technologies and energy efficiency</li> </ul> Each group is required to prepare a project proposal, submit progress and final reports, as well as produce the hardware of the project. Each student will then give an oral presentation of about 5 minutes.	December Year 2	30%