

**Assessment Scheme (Applicable to S.4 intake)**

**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	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.	September-October Year 1	10%
2	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.	October Year 1	10%
3	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.	January-February Year 1	15%
4	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.	April Year 1	15%
5	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.	July Year 1	10%
6	Lighting Luminous Efficacy and Energy Efficiency Practice	Experiment and Written Report	Students in group are required to test and analyse the type of the lighting by comparing their characteristics, including heat dissipation, so as to explain the efficiency of a luminaire and identify the components used in a smart LED luminaire and submit a report.	September Year 2	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.	May Year 2	30%