List of Competencies for On-the-Job Training (OJT)
Work-Study Diploma in Electrical Engineering
Applicants applying for this course must be free from colour appreciation deficiency.
A score of 100% from the Colour Blindness Test is mandatory for course admission.

Note: LOC is subject to changes due to curriculum review/ development

S/N	List of Competencies (Standard)	Company to indicate '✓' for OJT competencies it can provide
1	Install electrical circuits	
2	Troubleshoot electrical faults	
3	Install sensors and actuators	
4	Install programmable logic controller	
5	Perform electrical design	
6	Perform electrical installation	
7	Maintain electrical installation	
8	Produce electrical layout	
9	Produce single-line diagram	
10	Inspect electrical quantities	
11	Manage electrical loading	
12	Maintain power electronics	
13	Maintain energy storage system	
14	Design motor and control system	
15	Install motor and control system	
16	Maintain motor and control system	
17	Design electrical distribution system	
18	Install electrical distribution system	
19	Maintain electrical distribution system	
20	Analyze power distribution	
21	Manage power quality	
22	Design solar photovoltaic system	
23	Install solar photovoltaic system	
24	Maintain solar photovoltaic system	
25	Maintain electric vehicle charger	
	Sub-total of Competencies (Standard)	
List of Competencies (Company-specific)		
1		

S/N	List of Competencies (Standard)	Company to indicate '✓' for OJT competencies it can provide
2		
3		
4		
5		
6		
7		
	Sub-total of Competencies (Company-specific)	

Note:

a) Company must be able to provide OJT for at least **75%** of the List of Competencies (Standard).

b) If company is unable to meet the 75%, please propose alternate **course-related** competencies which are unique to company operations. Alternate competencies are capped at 25%.
    [i.e. 50% of the list of competencies (standard) + 25% alternate competencies (Company-specific)].

c) All alternate competencies (Company-specific) must be reviewed and endorsed by ITE.

d) Trainees must receive OJT and be assessed for **All** competencies selected in this List.

Total no. of competencies selected by company for OJT

Total no. of competencies listed *(standard & company specific)*

Percentage of selected competencies

Completed By:

_____   _____
Name   **Company**

MODULE SYNOPSIS – WSDip in Electrical Engineering

Course Objective

This course equips trainees with the skills, knowledge and professional attributes to design, install, maintain, repair, inspect, test, operate and supervise electrical installations and systems in accordance with engineering specifications as well as codes of practice and regulations.

Modules Synopsis

Electrotechnology
On completion of the module, trainees should be able to analyse, connect, test and troubleshoot DC, AC and electromagnetic circuits.

Industrial Control Automation
On completion of the module, trainees should be able to design and install programmable logic control system.

Electrical Design & Installation
On completion of the module, trainees should be able to design, install, test and maintain electrical installations in compliance with the relevant codes of practice and statutory regulations.

Electrical Drafting
On completion of the module, trainees should be able to produce electrical layout drawing and single-line diagram.

Circuit Analysis
On completion of the module, trainees should be able to determine electrical quantities as well as apply concepts and theorems in circuit analysis for three-phase systems and manage electrical loading.

Power Electronics
On completion of the module, trainees should be able to maintain power electronics and energy storage systems.

Electrical Motor & Control System
On completion of the module, trainees should be able to design, install and maintain electrical motor and control systems.

Power Distribution System
On completion of the module, trainees should be able to analyse power distribution and mitigate power quality issues. On completion of the module, trainees should be able to analyse power distribution and mitigate power quality issues.

Power System Analysis
On completion of the module, trainees should be able to analyse power distribution and mitigate power quality issues.

Solar Photovoltaic System & Electric Vehicle Charger
On completion of the module, trainees should be able to design, install and maintain solar photovoltaic system as well as maintain electric vehicle charging infrastructures.

Company Project
On completion of the module, trainees should have applied their acquired competencies in an authentic project that would value-add to the company.

On-the-Job Training

MODULE SYNOPSIS – WSDip in Electrical Engineering

On completion of the module, trainees should be able to apply the skills and knowledge acquired at ITE College and workplace to take on the full job scope, including supervisory function, where appropriate, at the company.

TRAINING PATTERN SCHEDULE

WSDip in Electrical Engineering

Day Release - Trainees attend 1 to 2 days of lessons per week at ITE, with the remaining work-week spent at the workplace for On-the-Job Training.

April'26 Intake	April – June 2026		July – September 2026		October – December 2026		January – March 2027	
1st Year Off-JT @ ITE	1 day/week	ITE Vacation (June) 4 weeks	1 day/week	ITE Vacation (Sept) 2 weeks	1 day/week	ITE Vacation (Dec) 4 weeks	1 day/week	ITE Vacation (March) 2 weeks

April'26 Intake	April – June 2027		July – September 2027		October – December 2027		October – December 2028	
2nd Year Off-JT @ ITE	1 day/week	ITE Vacation (June) 4 weeks	1 day/week	ITE Vacation (Sept) 2 weeks	1 day/week	ITE Vacation (Dec) 4 weeks	1 day/week	ITE Vacation (March) 2 weeks

April'26 Intake	April – June 2028		July – September 2028		
3rd Year Off-JT @ ITE	1 day/week	ITE Vacation (June) 4 weeks	1 day/week	ITE Vacation (Sept) 2 weeks	**WSDip Programme 2026** **Start: 1 April 2026** **End: 30 September 2028** **Duration: 2.5 years** ⚠ Final results release may be later than programme end date