



TFII - SCHNEIDER ELECTRIC
CENTER OF EXCELLENCE

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ABOUT TFII-SCHNEIDER ELECTRIC CENTER OF EXCELLENCE

TFII - Schneider Electric Center of Excellence is a development center for students, faculty members from higher education and vocational institutions in the public and private sectors, and professionals in the industrial sector. TFII - Schneider Electric Center of Excellence aims to produce skilled workforces in industrial automation, electric motor control systems, efficient energy management systems, smart home systems, SCADA systems, and IoT.



TFII-SCHNEIDER ELECTRIC CENTER OF EXCELLENCE GOALS

- ✓ 1. Train 15 KMUTNB's teachers and personnels in Training the trainer course.
- ✓ 2. Train 145 teachers from 14 vocational colleges nationwide in Training the trainer course.
- ✓ 3. Train over 4,000 students in the period of 2023 - 2027.



MOA Between KMUTNB by TFII and ASSIST
on 20 September 2023



Opening Ceremony "TFII-Schneider Electric Center
of Excellence" on 28 February 2024



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<https://tfii.kmutnb.ac.th/training/coe2024/>

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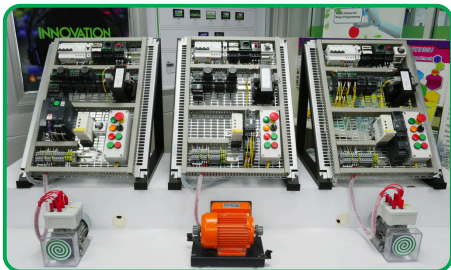
TFII-SCHNEIDER ELECTRIC CENTER OF EXCELLENCE

TFII – Schneider Electric Center of Excellence conducts blended training programs that combine theoretical knowledge and practical skills in various topics, including :



1. Industrial Installation, Controls, Drives, and Basic Automation :

Participants will study components for controlling industrial electrical operations, reading industrial electrical diagrams, controlling and testing industrial motors, and preventing circuit overloads and excess loads.



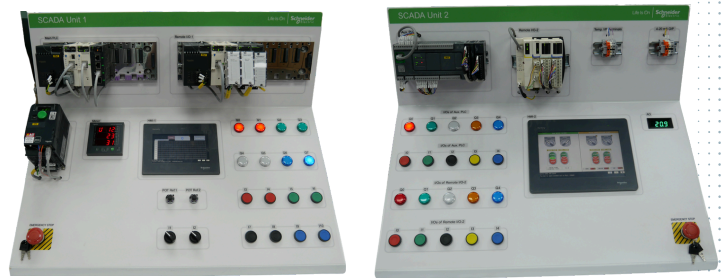
2. Industrial Automation :

Participants will study Modular PLCs used in mid-level industries, including wiring between PLC circuits, and electrical switchgear, programming and configuring PLCs using various languages, setting communication protocol parameters, and studying various industrial sensors.



3. Industrial Communication and SCADA :

Training includes the control of SCADA software and industrial communication devices. Participants will learn and experiment with connecting devices, programming for controlling and configuring PLCs and HMIs.



4. LV Panel Installation and Wiring :

Participants will study the wiring of low-voltage electrical control panels, the arrangement of busbar distances, the routing of control and power cables, and connections to operational systems for energy measurement.



5. Electric Vehicle Charging :

Training covers the installation, connection, and testing of charging stations, and control devices used for charging electric vehicles in apartments or small buildings. This includes creating reports setting energy limits and scheduling the time for the charging stations to start operating.



Module 2E – LV panel Installation and wiring



Module EV1 – Electric Vehicle charging