Low-cost OEE Visualization for Productivity Improvement

Entity Overview

	Company name	Location
Representative (Training provider)	EEC Automation Park, Burapha University	Chonburi, Thailand

Business overview

A center for talent development and technology transfer in industrial automation, driving Industry 4.0 with a focus on sustainability.

Partner organization	Mitsubishi Electric Factory Automation (Thailand) Co., Ltd.

Training Overview

Training site	EEC Automation Park, Burapha University
Project period	28th April 2026 - 31st January 2027
Training period	8 days (48 hours) in total
Participation fee	33,370 THB/person (1/2 will be subsidized)
Language	Thai
Target trainees	1. Engineers, production managers, and factory personnel involved in process improvement 2. Companies in the manufacturing sector aiming to enhance OEE and digitalize operations 3. Factories seeking low-cost solutions and self-development in industrial automation

Training attributes

Training Field: DX

Course Type: OJT

Basic Knowledge: Required

Applicable Industry: Manufacturing Industry

Highlight of Training Benefit: **DX:** Low Cost OEE Visualization

Contents of Training

Module 1: Understanding OEE and Basic Arduino &IIoT Gateway	Day 1: Smart Manufacturing Kaizen Level (SMKL) & OEE Tracking Concept and Improvement
	Day 2: Arduino Programming Development and Industrial Sensors
Module 2: Raspberry Pi for Industrial Automation	Day 3: Raspberry Pi, Node-Red and MySQL database
	Day 4: (OJT1 at Factory, 1 Factory/day) System Installation and Testing Data
Module 3: OEE Calculation and Data Visualization	Day 5: Get Data From Database MySQL and Calculate OEE
	Day 6: Dashboard Design and Realtime Visualization
Module 4: Low-Cost OEE factory application	Day 7: (OJT2 at Factory, 1 Factory/day) Real Case Workshop for OEE Visualization
	Day 8: Project Summary and Presentation for Productivity Improvement, Energy Waste and Carbon Emission Reductions

Expected Training Benefits

1. **Enhanced Operational Efficiency**
   ☑ Real-time machine monitoring reduces downtime, increasing production efficiency.
2. **Energy and Cost Savings**
   ☑ Eliminating energy waste cuts energy consumption and lowers costs, reducing the carbon footprint.
3. **Improved Data-Driven Decision-Making**
   ☑ Tools like Arduino, Raspberry Pi, Node-RED, and MySQL enable precise data collection for informed decisions.
4. **Scalable Digital Transformation**
   ☑ Hands-on training helps develop low-cost SCADA platforms that scale with future needs.
5. **Empowered Workforce**
   ☑ Trainees gain practical skills, driving innovation and continuous improvement.

How to Apply for Training

Apply at https://automationpark.or.th/en/news-and-activity/89/
More information please contact email automationpark@eng.buu.ac.th