## ASEAN Support Program for GX/DX Human Resource Development

## Low-cost OEE Visualization for Productivity Improvement

Entity Overview			Contents of Training	
Representative (Training provider)	Company name	Location	Module 1: Understanding OEE and Basic Arduino Module 2: Raspberry Pi	Day 1: Smart Manufacturing Kaizen Level (SMKL) & OEE Tracking
	EEC Automation Park, Burapha University	Chonburi, Thailand		Concept and Improvement Day 2: Arduino Programming Development and Industrial Sensors Day 3: Raspberry Pi. Node-Red and MySQL database
	Business overview		for Industrial Automation Module 3: OEE Calculation and Data Visualization	Day 4: (OJT1 at Factory, 1 Factory/day) System Installation and Testing
	A center for talent development and technology transfer in industrial automation, driving Industry 4.0 with a focus on sustainability.			Data Day 5: Get Data From Database MySQL and Calculate OEE
				Day 6: Dashboard Design and Realtime Visualization
Partner organization	Mitsubishi Electric Factory Automation (Thailand) Co., Ltd. , Silpakorn University		Module 4: Low-Cost OEI	Day 7: (OJT2 at Factory, 1 Factory/day) Real Case Workshop for OEE Visualization
Training Overview		factory application	Day 8: Project Summary and Presentation for Productivity Improvement, Energy Waste and Carbon Emission Reductions	
Training site	EEC Automation Park, Burapha Univer	sity	Expected Training Benefits	
Project period	29 <sup>th</sup> April 2025 – 31 <sup>st</sup> January 2026		<b>1. Enhanced Operational Efficiency</b> ✓ Real-time machine monitoring reduces downtime, increasing production efficiency.	
Training period	8 days (48 hours) in total		2. Energy and Cost Savings	
Participation fee	39,185 THB/person (1/2 will be subsidized)		Eliminating energy waste cuts energy consumption and lowers costs, reducing the carbon footprint.	
Language	Thai		3. Improved Data-Driven Decision-Making	
Training features	<ol> <li>Hands-on and OJT with Arduino, Raspberry Pi, and Node-RED</li> <li>Real factory case studies and project presentations</li> <li>Scalable, low-cost solutions with basic coding understanding</li> <li>OEE visualization for identifying losses and improving productivity</li> <li>Focus on energy efficiency and sustainable manufacturing practices</li> </ol>		<ul> <li>☑ Tools like Arduino, Raspberry Pi, Node-RED, and MySQL enable precise data collection for informed decisions.</li> <li>4. Scalable Digital Transformation         <ul> <li>☑ Hands-on training helps develop low-cost SCADA platforms that scale with future needs.</li> </ul> </li> <li>5. Empowered Workforce         <ul> <li>☑ Trainage gain practical skills, driving inpovention and continuous improvement.</li> </ul> </li> </ul>	
	<ol> <li>Engineers, production managers, and factory personnel involved in process improvement</li> <li>Companies in the manufacturing sector aiming to enhance OEE and digitalize operations</li> <li>Factories seeking low-cost solutions and self-development in industrial automation</li> </ol>		M framees gain prac	
Target trainees			How to Apply for Training	
			Apply at https://bit.ly/3YA4p0V More information please contact email automationpark@eng.buu.ac.th	