

## Lean and Green Manufacturing through Digital Transformation

### Entity Overview

	Company name	Location
Representative (Training provider)	Sirindhorn International Institute of Technology, Thammasat University	Pathum Thani, Thailand
	Business overview	
	One of Thailand's research universities, it offers science, technology and engineering education, as well as related management programs.	
Partner organization	LEXER RESEARCH Inc., GreenCPS Consortium, ASUENE Inc.	

### Training Overview

Training site	Thammasat University
Project period	29 <sup>th</sup> April 2025 – 31 <sup>st</sup> January 2026
Training period	2 days (12 hours) in total
Participation fee	3,500THB/person (1/2 will be subsidized)
Language	Thai and English
Training features	<ol style="list-style-type: none"> <li>1. Concept of lean manufacturing</li> <li>2. Overall equipment efficiency as KPI for cyber Kaizen</li> <li>3. Data analysis method for cyber Kaizen with production simulation</li> <li>4. Production process kaizen with production simulation</li> <li>5. Investment effect optimization with production simulation</li> </ol>
Target trainees	<ol style="list-style-type: none"> <li>1. Manager and staff in Environment Management Department</li> <li>2. Engineers in Production System Development</li> <li>3. Manager and staff in the Procurement Department</li> <li>4. Manager in Product Design Development</li> <li>5. Strategic and Top Management in the Manufacturing Industry</li> </ol>

### Contents of Training

1. Implement Pre-Production Kaizen (Front-Loading)
  - Concept of front-loading, which involves conducting Kaizen activities before the start of production.
2. Enhance Productivity through Cyber-Physical Production System Design
  - Utilize advanced production simulation tools in a cyber-physical environment to design and optimize manufacturing systems.
3. Optimize Key Manufacturing Elements
  - Comprehensive improvements across multiple areas, including productivity, inventory efficiency, lead time reduction, labor performance, and production layout.
4. Facilitate Informed Decision-Making for Total Optimization
  - Trade-offs between operational capabilities and investment costs by providing participants with methodologies for informed decision-making

### Expected Training Benefits

1. Innovative Transformation to Industry 4.0 through IoT Integration
2. Companies can expect up to a 20% improvement in productivity across all production divisions.
3. Upskill participants in critical engineering areas, particularly in managing and optimizing IoT-integrated production systems

### How to Apply for Training

Please contact via the email address below for the application.

Email address: [gxdxhrd@gmail.com](mailto:gxdxhrd@gmail.com)