

## Lean and Green Manufacturing through Digital Transformation

### Entity Overview

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

### Training Overview

<b>Training site</b>	Thammasat University
<b>Project period</b>	29 <sup>th</sup> April 2025 – 31 <sup>st</sup> January 2026
<b>Training period</b>	2 days (12 hours) in total
<b>Participation fee</b>	3,500THB/person (1/2 will be subsidized)
<b>Language</b>	Thai and English
<b>Training features</b>	<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>
<b>Target trainees</b>	<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: [gdxhrd@gmail.com](mailto:gdxhrd@gmail.com)