



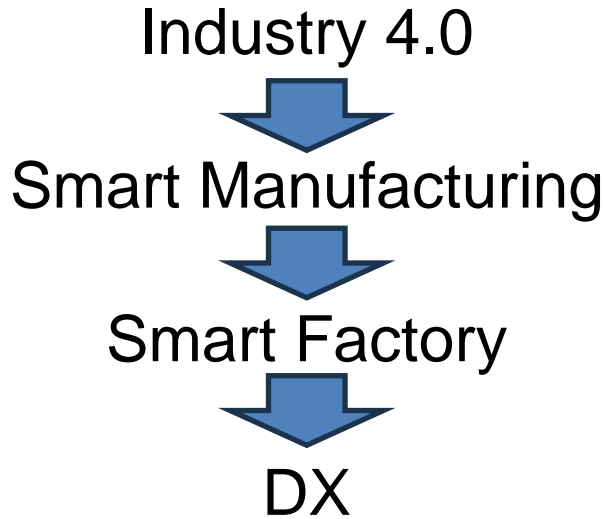
Digital Transformation (DX) refers to the integration of digital technology into all areas of manufacturing, fundamentally changing how it operates and delivers value to its customers.



1. What is DX?



It often involves adopting advanced technologies like cloud computing, artificial intelligence, digital twin, the Internet of Things (IoT), and big data analytics to improve processes, enhance efficiency, and foster innovation.

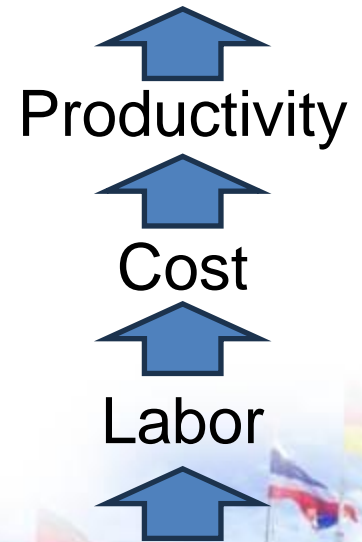


2023 DIGITAL COMPETITIVENESS RANKING

Rank	Country	Score	Change
01	USA	100.00	↗ 1
02	Netherlands	98.10	↗ 4
03	Singapore	97.40	↗ 1
33	Malaysia	75.31	↘ 2
34	Kazakhstan	71.84	↗ 2
35	Thailand	70.53	↗ 5

2. Do you care about DX?

Competitiveness



ประเทศไทยขาดแคลนกำลังคนที่มีทักษะด้าน ภาษาอังกฤษ และ ดิจิทัล

EF ENGLISH PROFICIENCY 2023 (จาก IIB ประเทศไทย)

Country	Rank
Singapore	2 nd
Hong Kong	29 th
South Korea	49 th
Malaysia	25 th
Thailand	101 st

#ประชากร 2020 (อายุ 6 ปีขึ้นไป)***

Country	Population
Singapore	5.5 ล้านคน
Hong Kong	7.1 ล้านคน
South Korea	48.9 ล้านคน
Malaysia	29.2 ล้านคน
Thailand	65.5 ล้านคน

% BASIC ICT SKILLS ***

Country	%
Singapore	52 %
Hong Kong	53 %
South Korea	88 %
Malaysia	69 %
Thailand (2020)	17 %

% STANDARD ICT SKILLS

Country	%
Singapore	37 %
Hong Kong	36 %
South Korea	65 %
Malaysia	52 %
Thailand (2020)	10 %

% ADVANCED ICT SKILLS

Country	%
Singapore	9 %
Hong Kong	1 %
South Korea	10 %
Malaysia	16 %
Thailand (2020)	1 %

Competency Development for Lifelong Learning and Future of Jobs

** ESTIMATED DATA FROM UNITED NATIONS POPULATION DIVISION DATA PORTAL, 2020, ACCESSED NOV 2021
*** DATA FROM INTERNATIONAL TELECOMMUNICATION UNION (ITU) DIGITAL DEVELOPMENT DASHBOARD (BETA), 2021, ACCESSED OCT 2022
**** CALIBRATED DATA FROM NATIONAL STATISTICAL OFFICE HOUSEHOLD ICT SURVEY 2020
ALL DATA REPRESENTS 2020 FIGURES UNLESS SPECIFIED OTHERWISE

DX Transformer Package

Level	Position	Competency	Role
Management	Owner, CEO, MD	Know "WHY"	Vision, Policy
Leader	Manager, Sr. Engineer	Know "WHAT"	System Analysis and Transformation Management
Engineer	Engineer	Know "HOW to design"	System Design with DT and building control
Utilizer	Technician, Operator	Know "HOW to utilize"	Perform duties with DT

DT: Digital Technology

3. Who is the DX Leader?



Training and OJT in 3 Modules

1. DX mindset → DX Awareness and Technology
2. DX Process → DXSA and Transform
3. Digital Implementation → DX Implementation

4. How to develop the DX Leader?



5. What is the DX Leader training course?



DX Mindset Course Contents:

1. Introduction: The Importance of a Digital Mindset
 - Understanding Digital Mindset
 - Why Embrace a Digital Mindset?
2. Fundamentals of Digital Transformation
 - Concept of Digital Transformation
 - Key Technologies Driving Transformation
3. Skills and Tools for Developing a Digital Mindset
 - Digital Thinking
 - Tools and Technologies for Effective Digital Work

5. What is the DX Leader training course?



DX Process Course Contents:

- Process Pain point Finding ➡ Line, Process, Equipment to be transform
- Process Improvement with DT ➡ How to improve with DT
- DT for Process Transformation ➡ Conceptual design and DT Selection
- Process Transformation Planning ➡ Action Plan
- Transformation Workforce Planning ➡ Workforce Plan and Preparation
- Transformation Investment Planning ➡ Feasibility Study and Investment Plan

5. What is the DX Leader training course?



DX Implementation Course Contents:

DX Guideline

1. Determine how DX will be handled within the existing organization
2. Designate DX coordinator, with full management support.
3. Establish a schedule, listing all tasks to be done before and after DX delivery
4. Select the candidate production line for early processing.
5. Select and order the SI
6. Select and train key personnel.

6. What is the DX Leader Training Plan?



Module	Topic	Topic	
DX Mindset	Introduction to Digital Transformation (6 hours)	Day	1
	Dx Thinking and Innovation (6 hours)	Day	2
	Core Digital Skills (24hours)	Day	3,4,5,6
	Future Trends and Continuous Learning (6 hours)	Day	7
DX PROCESS	Dx Concept Design (6 hours)	Day	8
	Dx PLAN (6 hours)	Day	9
	Dx Financial Feasibility (6hours)	Day	10
	Group Project :DX Conceptual Design	Day	11
DX IMPLEMENT	DX Project Management (12 hours)	Day	12,13
	Measuring Success in Digital Transformation (12 hours)	Day	14,15

Activity	Nov 2024	Dec 2024	Jan 2025
PR	1 ↔ 15		
Batch 1	18 ↔ 24		
Batch 2		2 ↔ 24	

7. What are the project outcomes?



40 trainees can apply the knowledge, skills, and experience gained to successfully transform the factory, enhancing productivity in line with the established policies and goals.

The company will be able to increase production productivity by more than 15% according to the goals simulated through digital programs before making any investments. Additionally, the company's image will improve in the eyes of customers when transitioning to digital processes, from planning to delivery, which will positively impact the company's marketing efforts in the future

8. What is the candidate of trainees?



THAILAND PROMOTES S-CURVE INDUSTRIES

- Next-generation automotive
- Smart electronics
- Medical and wellness tourism
- Agriculture and biotechnology
- Food for the future
- Automation and robotics
- Logistics and aviation
- Biofuels and biochemicals
- Digital
- Medical and healthcare
- Defense
- Education and human resource development

Manager and Senior engineer level, focus on SMEs in Manufacturing, Automotive, Electric and Electronic, Automation and Robot Industry

