01. DEFINITION OF LEAN

WHAT IS LEAN?

GOAL: ELIMINATION OF WASTE

BEGINS BY IDENTIFYING VALUE, THEN IDENTIFIES VALUE STREAM, STRIVES TO IMPLEMENT PULL & FOCUSES ON PERFECTION
02. LEAN PIONEERS

LEAN PIONEERS

SAKICHI TOYODA
HENRY FORD
TAIICHI OHNO
03. TOYOTA PRODUCTION SYSTEM

THE TPS HOUSE

Best Quality – Lowest Cost – Shortest Lead Time – Best Safety – High Morale
through shortening the production flow by eliminating waste

- People
  - Continuous Improvement | Kaizen
  - Waste Reduction
    - Leveled Production (Heijunka)
    - Stable and Standardized Processes
      - Visual Management
      - Toyota Way Philosophy

- Jidoka

Just-In-Time (JIT)

Lean Pioneers
Value Stream Map
5S
8 Wastes
Jidoka
Just-In-Time
Kaizen
Genchi Genbutsu
04. LEAN TOOL: POKA-YOKE

WHAT IS POKA-YOKE?

JAPANESE TERM FOR MISTAKE-PROOFING
METHOD USED TO PREVENT ERRORS

Definition of Lean
Lean Pioneers
Toyota Production System
Poká-Yoke
Value Stream Map
5S
8 Wastes
Jidoka
Just-In-Time
Kaizen
Genchi Genbutsu
05. LEAN TOOL: VALUE STREAM MAP

Definition of Lean
Lean Pioneers
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Poka-Yoke
Value Stream Map
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8 Wastes
Jidoka
Just-In-Time
Kaizen
Genchi Genbutsu

STEPS TO CREATE A VALUE STREAM MAP

Step 01: Identify Start & End Points
Step 02: Document the process steps
Step 03: Add inventory & wait times
Step 04: Draw information flow
Step 05: Create timeline

Total Cycle Time = 13 minutes
Value Added Time = 9.5 minutes
Process Cycle Efficiency = VA/Total Time = 7.033 = 53.88%
06. LEAN TOOL: 5S

5S IS A WORKPLACE ORGANIZATION METHOD THAT CAN HELP IMPROVE THE EFFICIENCY AND MANAGEMENT OF OPERATIONS. 5S STANDS FOR:

- SORT (SEIRE)
- SET IN ORDER (SEITON)
- SHINE (SEISO)
- STANDARDIZE (SEIKETSU)
- SUSTAIN (SHITSUKE)
07. LEAN TOOL: 8 WASTES

- Definition of Lean
- Lean Pioneers
- Toyota Production System
- Poka-Yoke
- Value Stream Map
- 5S
- 8 Wastes
- Jidoka
- Just-In-Time
- Kaizen
- Genchi Genbutsu

- DEFECTS
- OVER-PRODUCTION
- WAITING
- NON-UTILIZED SKILLS

- TRANSPORTATION
- INVENTORY
- MOTION
- EXCESS PROCESSING
08. LEAN TOOL: JIDOKA

PROCESS FLOW OF BUYING AN ONLINE COURSE

95% to 98% customers go through this Straight Through Process

- Look for the desired course
- Hit the "buy now" button
- Enter payment details
- Get enrolled
- Receive an auto-generated email
- Finish the course

Technical Glitch

- Online department notified
- Call customer
- Correct the error manually

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**09. LEAN TOOL: JUST-IN-TIME (JIT)**

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**THE ORIGIN STORY OF JIT**

**CREDITED TO HAVE CREATED JUST-IN-TIME**

**TOYOTA STRUGGLED THROUGH THE 1930’s**

**IN EARLY YEARS, TOYOTA PRODUCED:**
- POOR QUALITY VEHICLES
- WITH PRIMITIVE TECHNOLOGY
- HAD LITTLE SUCCESS

![Image of Taiichi Ohno](image)

**TAIICHI OHNO**

**IN 1930, TOYOTA LEADERS VISITED FORD & GENERAL MOTORS**

**STUDIED THEIR ASSEMBLY LINES**

**ALSO READ HENRY FORD’S BOOK: TODAY & TOMORROW**

**TESTED CONVEYOR SYSTEM, MACHINE TOOLS, ETC**
10. LEAN TOOL: KAIZEN

KAIZEN EXAMPLES

ROLL OUT A NEW MONITORING AND FEEDBACK CHECK SHEET

CHEAT SHEET WITH REQUIRED BANK PHONE NUMBERS
11. LEAN TOOL: GENCHI GENBUTSU

Definition of Lean
Lean Pioneers
Toyota Production System
Poka-Yoke
Value Stream Map
5S
8 Wastes
Jidoka
Just-In-Time
Kaizen

GENCHI GENBUTSU: A SIMPLE YET A POWERFUL TOOL – CASE STUDY

AUDIO ONLY

2004 SIENNA

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## LEAN MANAGEMENT

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