

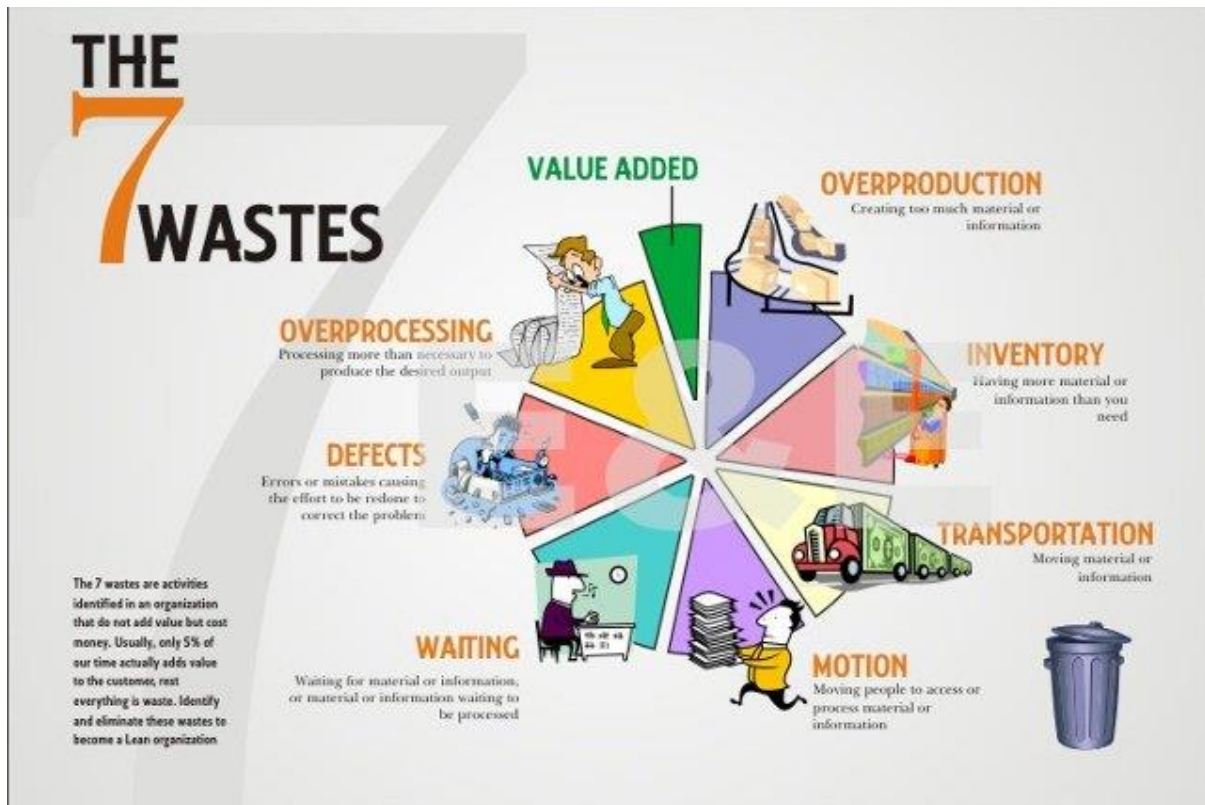
## LEAN MANUFACTURING

DURATION: 2 DAYS

TIME SCHEDULE

Time: 9:00am to 5:00pm

Lunch Break: 1:00pm to 2:00pm



### INTRODUCTION

With the increase in global competition, LEAN concept is introduced with the focus on reducing the Non Value Added (NVA) wastes for process improvement. Waste is anything that impedes the flow of the product as it is being transformed in the value chain. To maximize the efficiency of manufacturing/services, we will share the practices/tools from LEAN that can be used for continuous improvement towards operational efficiency/excellence.

### BENEFITS

Upon completion of this program, participants will be able to:

- Understand the basic concept of LEAN Manufacturing
- Recognize the SEVEN (7) wastes at the workplace
- Adopt the relevant Lean practices/tools to identify opportunities for operational excellence
- Engaging management in LEAN manufacturing

### KEY CONTENT

#### MODULE 1 – LEAN

- What is LEAN?

- 2 pillars of LEAN
  - JIT (Just-In-Time)
  - JIDOKA (Automation)
- Apply LEAN concept in manufacturing and/ or service sectors
- Determine the benefits of LEAN transformation

#### **MODULE 2 – WASTE IDENTIFICATION**

- 7 “deadly” wastes
  - Transportation
  - Inventory
  - Motion
  - Waiting
  - Over-processing
  - Over-production
  - Defects
- Determine value added/non value added

#### **MODULE 3 – KAIZEN Methodology**

- What is KAIZEN?
- KAIZEN activity cycle

#### **MODULE 4 – LEAN Practices/Tools**

- 5S
  - Sort
  - Set
  - Shine
  - Standardized & Safety
  - Sustain
- 7 QC (Quality Control) Tools
  - Check Sheet
  - Pareto Chart
  - Fishbone Diagram
  - Scatter Diagram
  - Histogram
  - Control Chart
  - Graph
- FMEA (Failure Mode Effects Analysis)
  - Severity
  - Occurrence
  - Detection

#### **MODULE 5 – Building LEAN culture**

- Create buy-in from management and staff level
- Link LEAN initiatives to departmental goals
- Measure effectiveness of LEAN initiatives

## **AUDIENCE**

This program is designed for Technician, Supervisors, Engineers, Executives and Managers who are involve in either manufacturing or service sector who want to improve their process efficiencies by implementing LEAN.

## **METHODOLOGY**

This workshop will be conducted through interactive lectures, workshop discussion, case studies and some practical application.