### Understanding and implementing OEE Course

### Summary of course benefits

#### • <u>Understanding OEE and its importance:</u>

learn its role in enhancing equipment efficiency, boosting productivity, reducing costs, and increasing profitability.

#### Mastering core components:

Analyze and calculate availability, performance, and quality with practical examples.

#### Identifying and reducing losses and waste:

Differentiate value-added vs. Non-value-added activities, identify the 8 wastes in manufacturing and **Six Big Losses** 

### SUMMARY OF COURSE BENEFITS

#### • <u>Calculating and interpreting OEE:</u>

Combine core components to calculate OEE, interpret scores, and understand differences between OEE, OOE, and TEEP.

#### Implementing and Improving OEE:

Set SMART goals and apply strategies to reduce downtime, improve performance, and enhance quality.

#### • Practical application:

Gain hands-on experience through examples and case studies to optimize processes and improve productivity.

Implementation of OEE By using EXCEL

## MODULES

1 2

## MODULE 1: INTRODUCTION TO OEE

- What is OEE?
- Importance of OEE

Enhances manufacturing processes and competitiveness.

• Objectives:

Increase productivity, reduce costs, and enhance profitability.

• OEE as a tool :

fosters continuous improvement and drives strategic decisions.

# Module 1: implementing and improving OEE

#### • <u>SMART Goals:</u>

Aligning OEE improvements with clear objectives.

#### Continuous Improvement:

Enhancing productivity and reducing waste through regular analysis.

# Module 2: Understanding Losses and Waste

#### Identifying waste:

Differentiating value-added (VA) and non-value-added (NVA) activities.

#### • <u>The 8 wastes:</u>

Overproduction, overstock, defects, extra processing, waiting, motion, transportation, and underutilized people.

Business value added activities

# Module 3: calculating and interpreting OEE

#### **OEE Calculation:**

Combines Availability, Performance, and Quality.

**Interpreting Scores:** 

Understanding performance levels.

:OEE Ranges

World-Class, Highly Efficient, Moderate, and Low Performance.

**Detailed Example:** 

Comprehensive step-by-step OEE calculation.

# Module 3: Core Components of OEE

**Three Key Factors:** 

Availability, Performance, and Quality.

• Availability:

Includes Shift Time, Planned and Unplanned Stoppage Times.

#### Performance:

Actual speed vs. ideal speed

• <u>Quality:</u>

Percentage of parts meeting specifications includes First Pass Yield (FPY).

Includes practical examples and calculations for all components.

### Module 3: Advanced OEE Concepts

#### • OEE vs. OOE vs. TEEP:

Differences in metrics and operational focus.

• <u>Applications:</u>

Practical usage of each metric for goals.

### Module 4: Implementation of OEE BY EXCEL

- Complete project on excel
- Dropdown list
- Data Base Tables
- Vlock up
- Sum ifs
- Count ifs