



# Relationship Between Equipment Losses and Overall Equipment Effectiveness

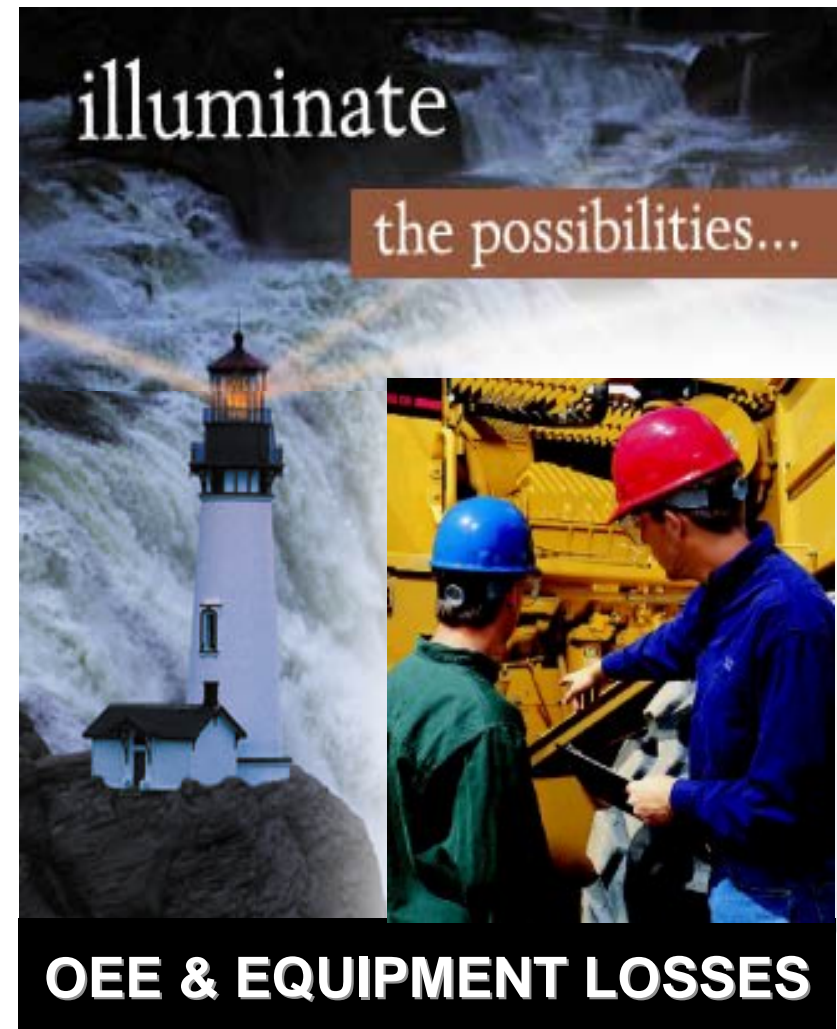


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**OBJECTIVE OF THIS COURSE :**

- Understand equipment losses and its major component including how to relate these losses to OEE
- Learn how to analyze OEE data to determine equipment constraints
- Understand the 7 Major Equipment Losses and how to minimize them in order to improve OEE
- Understand how to deal with these individual equipment losses and the best maintenance indices to track
- Understand the different manpower losses



**COURSE MODULES :****• Introduction****• Module 1 : Breakdown Loss**

- What constitute a failure ?
- Understanding Primary & Secondary Failures
- How to reduce breakdown loss
- MTBF to measure breakdown loss
- Lessons about failure

**• Module 2 : Set-Up & Conversion Loss**

- Set-up and conversion defined
- Shigeo Shingo on reducing set-up time

**• Module 3 : Start-up Losses**

- Start-up failure defined
- Infant Mortality & Random Failures
- How PM affects start-up losses
- How to reduce start-up losses

**• Module 4 : Idling and Minor Stoppage**

- Understanding Chokotei
- Best TPM Pillar to reduce Minor Stops
- MTBA Snapshot for Minor Stoppages

**• Module 5 : Design Speed Loss**

- Design Speed Loss defined
- Improving Design Speed Loss

**• Module 6 : Defect & Rework Loss**

- Understanding Chronic Defects
- Analytical tools for defects

**• Module 7 : Understanding OEE**

- Relationship between OEE and and Equipment Losses
- Components of OEE
- How to compute for OEE

**• Module 8 : Manpower Losses**

- Different manpower losses
- Target of improvement for Admin

**• Closing Remarks**