

# Asset Maintenance & Reliability Management You will learn about

## UNDERSTANDING EQUIPMENT MAINTENANCE

- ✓ Why Do Machines Fail, Maintenance Perspective of Equipment?
- ✓ Machine Maintenance Practices Evolution.
- ✓ Introduction to Asset Management Frameworks
- ✓ Top Management Commitment
- ✓ Maintenance organization

## ELEMENTS OF MAINTENANCE MANAGEMENT

- ✓ Important Terms Used in RCM Methodology.
- ✓ Physics of Failure
- ✓ Operational Risk Assessment
- ✓ Equipment Life Cycle approach
- ✓ Reliability Engineering.
- ✓ Quality Control and Assurance in Maintenance Operations
- ✓ Managing Human Error in Reliability Domain.
- ✓ Main Quality tools used for RCA, FMEA SPC
- ✓ Knowledge Management in Maintenance Operations

## APPLYING WORLD CLASS MAINTENANCE MANAGEMENT PRACTICES

### How to Setup Preventive Maintenance regimes?

- ✓ Maintenance Strategy (PM, Predictive, Fault Findings AMCs, Modifications)
- ✓ Spares Policies
- ✓ Work Quantum and their Interdependencies
- ✓ Skill Requirements and Special provisioning

### How to Setup your workflow system to accomplish following

- ✓ Ability to provide flexible workflow System
- ✓ Faster, reliable, vivid communication among Stake holders
- ✓ Must have inherent capability of capturing data and generate predefined reports.
- ✓ Must raise work as per predefined conditions Calendar base, uses base, Event Base IOTs.
- ✓ Based on accumulative information shall support decision making.
- ✓ Shall have tools to support Planning and Scheduling optimization/ Modification

### How to Gauge skill requirement for, Craftsman, Supervisors and Engineers.

- ✓ Ask Questions, not presume
- ✓ Conduct training and skill reinforcements
- ✓ Capture Failure with respect to Human Skill and competency Issues and act upon them

### How to Monitor Maintenance Performances.

- ✓ Leading and Lagging KPIs
- ✓ Maintenance Audits

### How to Integrate Maintenance Process with Organizations Business Processes