Advanced Maintenance Planning And Scheduling & Shutdown, Turnaround And Outage

Introduction:

Maintenance planning and scheduling using structured and systematic approaches are critical for every successful plant. Maintenance planning and scheduling are the fastest and most effective investments that an organization can make to improve plant productivity and equipment availability.

This course is designed to build competency in maintenance planning and scheduling. The techniques that participants will learn in this course will allow for effective planning and scheduling of maintenance resources.

The course covers all the fundamentals and advanced methods and applications that a suitably qualified professional would use in carrying out fully functional plant maintenance. In summary, the course provides a step-by-step practical guide to best practices of maintenance planning and scheduling that will essentially reduce maintenance costs and deliver maximum business benefits.

Who Should Attend?

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This highly interactive training course will benefit anyone responsible for maintenance, who wishes to build competency in maintenance planning and scheduling to improve plant performance. This includes:

- Maintenance Engineer/ Planner/ Schedulers/ Supervisors/ Managers
- Plant Engineer/ Manager
- Operation Engineer/ Manager
- Material and Storeroom Engineer/ Manager
- Production Engineer/ Manager
- Mechanical Engineer/ Manager

Course Objectives:

By the end of this course delegates will be able to:

- Optimal selection/ planning for work orders of preventive maintenance, predictive maintenance, run to failure maintenance and maintenance by redundancy/ re-design
- Effective use of condition monitoring technologies (i.e. vibration, acoustic emission, infrared thermography and wear debris) for maintenance work orders
- Integration of reliability centered maintenance with maintenance planning and scheduling
- Management of maintenance backlog
- Demonstration of Computerized Maintenance Management Systems (CMMS) and radically novel Enterprise Resource Planning Software

Course Outline:

Day 1: Maintenance Planning and Scheduling: The Key Elements of Maintenance

- **Session 1:** Ensuring that your Maintenance Planning Contributesto the Company's Profit toAchieve Business Outcomes

- **Session 2:** Converting Maintenance Strategy into Smart Tactics to Ensure an Optimal Approach to Maintenance

- **Session 3:** Selecting Maintenance Types for Work Orders that Increases Reliability of Assets

Day 2

- **Session 1:** Effectively Planning Asset Overhauls

- **Session 2:** Planning Predictive Maintenance Using Condition Based Maintenance (CBM) Technologies

- **Session 3:** Improving Advanced Planning and Scheduling in your Management Process. Maintenance Software and the Main Planning/ Scheduling Techniques

Day 3

- **Session 1:** Enterprise Resource Planning (ERP). Maximising ERP as a Tool to Reduce Costs and Improve Productivity, Quality and Control

- **Session 2:** Planning Maintenance via Root Cause Analysis and Failure Assessment to Essentially Cut Unnecessary Maintenance Costs

- **Session 3:** The People Matter: Developing Sustainable Planning by your Team to Meet Future Needs of Maintenance

Day 4

- **Session 1:** Maintenance Planning and Scheduling are Key Factors for Achieving STO Success

- **Session 2:** Applying Maintenance Tactics for STO to Ensure a Systematic Approach to Shutdowns

Day 5

- **Session 1:** Best Practices During Shutdown/ Turnaround: Long-Term Planning, Scoping and Organisation

- **Session 2:** Top Factors Ensuring that Shutdown/ Turnaround Happens Efficiently, Without Essential Delays and Unexpected Costs and According to What Was Planned