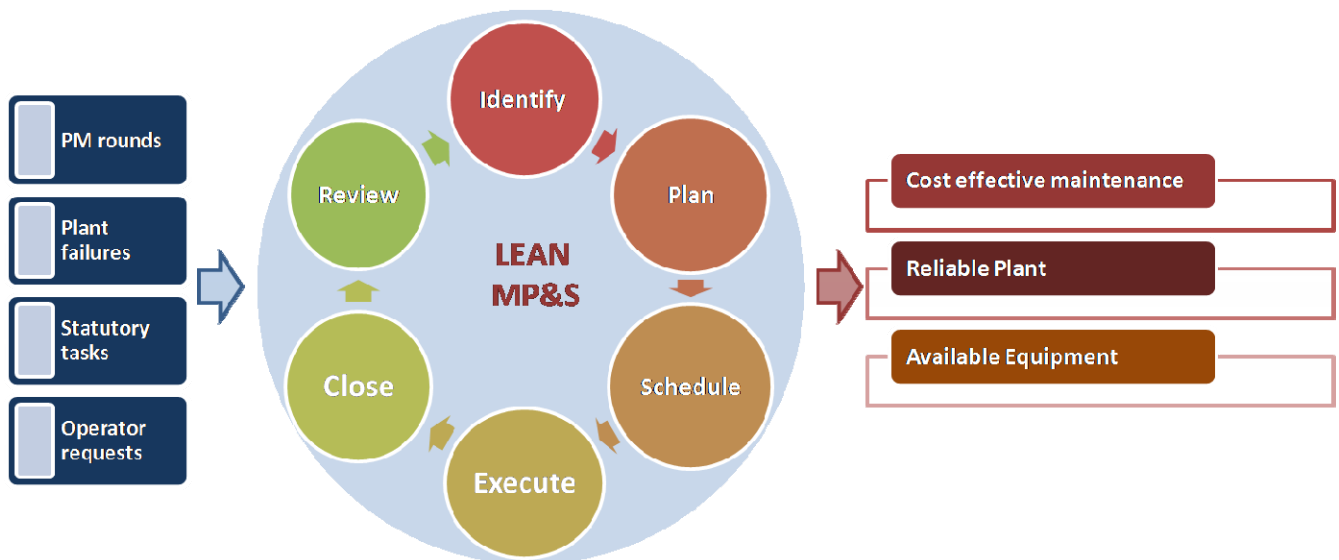


Lean Maintenance Planning and Scheduling

Two Day Training Course



Deliver real improvements in Reliability, Availability and Cost effectiveness through Lean Maintenance Planning and Scheduling



The Training Course

Our World-leading two day Lean Maintenance Planning and Scheduling (Lean MP&S) 'practical skills development' course has been developed by The Asset Partnership to enable maintenance personnel to drive down costs and lift the performance of physical assets to meet the demands of Tough Times!

Learn How To

- Reduce wasted time and effort in planning, scheduling and job execution
- Reduce Cost and Risk
- Reduce unplanned outages through more effective targeting of activities
- Employ world best practice work packaging and crew loading to minimise waste
- Reduce human errors through improved plan communication
- Improve morale throughout Production through service improvement

Course Outline (Further Details Overleaf)

- I. **Components of Lean maintenance—**
Framework of Lean principles
- II. **Selecting the right maintenance—**
Brief outline of Condition Based Maintenance and Scheduled Overhaul
- III. **Identifying work and creating task plans—**
Practical techniques for Lean Planning
- IV. **Scheduling maintenance tasks—**
Practical techniques for Lean Scheduling
- V. **Analyse for Continuous Improvement—**
Information recording, reporting and tools for analysis
- VI. **Round-up and action setting**

Designed for

Key influencers in the roles of Maintenance Engineer, Planner, Scheduler, Supervisor and some key Maintainers and Operators

Tough Times Demand Smart Solutions



The Asset Partnership Training Programmes

Detailed Course Outline: Lean Maintenance Planning and Scheduling

Introduction: Components of Lean Maintenance

- ▶ Maintenance performance—the driver for Lean thinking
- ▶ Growth of Lean techniques
- ▶ Maintenance activities and the Seven Wastes
- ▶ Human Error and its management
- ▶ Lean maintenance principles in MP & S

Selecting the Right Maintenance

- ▶ Six Failure Patterns – random and age-related failures
- ▶ Managing Random Failure: technical feasibility and risk reduction benefits of condition-based maintenance
- ▶ Managing age related failures: technical feasibility and risk reduction benefits of replacing or refurbishing items at fixed points in calendar time or running hours

Identifying and Planning Maintenance

- ▶ Master data— asset register, BOMs, parts lists, locations, equipment maintenance strategies
- ▶ The maintenance organization - roles and responsibilities in Planning and Scheduling
- ▶ Planning horizons, plan management and maintenance planning tools
- ▶ Addressing root cause and incorporation of risk and quality management
- ▶ Overview of Shutdowns and Shutdown planning
- ▶ Planned parts and rotables processes: the planner's role
- ▶ Specifying maintenance on job cards/work instructions: level of detail, CBM parameters, inter-stage checking, skill levels and safety, labour and parts estimates
- ▶ Work Order prioritisation
- ▶ Working within the maintenance budget
- ▶ Planning performance measures – DOs and DON'Ts
- ▶ Waste reduction opportunities in Identifying and Planning – actions
- ▶ Practical Tips for Maintenance Planners

Scheduling Maintenance Activities

- ▶ Task packaging process – skills, plant system, location, maintenance windows
- ▶ Crew loading basics
- ▶ Scheduling basics— risk management; daily, weekly and longer term scheduling, interfacing with operations, dealing with emergency requests, managing materials and spares, managing contractors
- ▶ Scheduling performance measures— Do's and Don'ts; schedule performance, schedule compliance
- ▶ Waste reduction opportunities in scheduling
- ▶ Practical Tips for Maintenance Schedulers

Analyse for Continuous Improvement

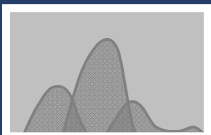
- ▶ Closing off Work Orders – minimum requirements
- ▶ History: What it tells us (and does not tell us) about future performance. Value of history in the PDCA loop
- ▶ Reacting to problems which have occurred and avoiding future problems using Lean tools: Two 'C's (Containment and Countermeasures); Three 'W's for assignment of actions (Who, What, When)
- ▶ Performance measurement and reporting through the maintenance dashboard
- ▶ Resolving problem areas with Continuous Improvement (Lean) tools.

Your Presenters



Ralph Pain: CEng, MIMechE. Ralph is an experienced Maintenance Manager and consultant in Asset Management across mining, utilities and manufacturing. Ralph is an experienced trainer who fully involves participants in the training experience

David Wiley: BEng. David has extensive industry experience in maintenance work management across a range of industries and has since developed and conducted work management training during his consulting career



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