Course ref	AM24
Course title	Optimization of shutdown strategies and work bundling
Duration	3 days
Class Size	16

Overview

Planned shutdowns usually result in considerable amount of lost production and lost sales as a result. This training course enables the understanding and modelling of cost/risk optimization of shutdown intervals, and the choice of maintenance work to cluster or bundle into various shutdown alternatives.

Objective

To optimize and reduce the total cost of planned outages to be programmed over a period of years, while maintaining and improving unplanned plant availability.

Content

Shutdown optimization

- The concept of shutdowns
- The advantages and disadvantages of shutdowns
- The technology of shutdown optimization
- What is shutdown optimization?

The potential for cost savings

- Shared overheads
- Shared downtime

Modelling of work package bundling for shutdown optimization

- Critical paths and sequential or parallel working
- Sequential work selection and groupings
- Present value evaluation of shutdown alternatives
- Cost and risk optimal work bundling and sensitivity testing of alternatives
- Modelling and optimization of non-critical assets bundling decisions
- Modelling and optimization of critical assets bundling decisions

Benefit

The reduction of unproductive planned lost time. The bundling of maintenance work into optimally timed shutdowns. The cost/risk optimization comparison of various alternatives of work packaging for shutdowns. Options and alternatives of mini and major shutdowns.

Audience

Asset Managers, Production and Industrial Engineers, Maintenance and Operations Managers, Reliability Engineers and facilitators of continuous improvement programmes

Pre-requisites

Understanding of cost risk assessment and optimization of maintenance, inspection, projects and whole life costing decisions

Cross references

See TWPL courses AM15, AM16, AM22, AM23, AM25, AM26 and AM28

Tel: + 44 (0) 1635 29 88 00
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