Best Practices for Planning and Execution of Shutdown and Turnaround

Energy Milestones Corporation

Advancing Professionals to the next level

Energy Milestones is proud to be accredited, partner and associated with the following association bodies:

Best Practices for Planning and Execution of Shutdown and Turnaround

Overview

This course will firmly put planned shutdowns and turnarounds, which are an accepted feature of large process plants, into a business context. The purpose will be identified as providing increased overall availability, efficiency, and integrity. The course will identify the ingredients which need to be managed effectively and optimised to achieve this result. A framework for efficient, effective and timely action will be given. The course will highlight how opportunities provided to inspect, clean, repair, modify equipment and regenerate or renew catalysts also offer opportunities to do significant quantities of unnecessary work. This increase in work volume will lead to an expansion of the workforce, add complexity to the process, put pressure on the local competence pool, incur additional costs, and typically extend the duration of the shutdown. Effective management of equipment degradation will reduce the rate and unpredictability of deterioration, minimise repair needs, and provide increased confidence in inspection trends. All of which will reduce work needs. The course will provide a good understanding of how to manage these and other issues which bear on the achievement of the objectives of a modern shutdown strategy. This strategy aims to optimise the interval between shutdowns, minimise the time between feed-out and product back on specification, and achieve this at a low cost. The course will equip participants with the competence to utilise modern, well-proven approaches, tools, and techniques to accomplish this desirable result.

Course Objectives

At the end of this course, the participants will be able to:

- Obtain a solid understanding of the key elements of successful shutdown management
- Apply strategies for shutdown avoidance by managing degradation and regulators
- Justifying the shutdown and formulating clear objectives to help minimise work volume

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Course Objectives

- Make a timetable and framework to make visible and manage the necessary business processes
- Apply best practice plans for some critical aspects of a shutdown
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- Employ communication strategies
- Understand benchmarking and capture of data to drive improvements

Course Content

- Understanding the purpose of a shutdown
- How to measure success
- Development of a strategic framework for effective action
- Pacesetter performance and best in class
- Putting the shutdown into the context of overall operations
- Pre-shutdown work minimising techniques
- Establishing the shutdown objectives and targets
- Forming the shutdown team
- Making a milestone plan with Pacesetter targets
- Vetting, challenging and freezing work scopes
- Development of contracting strategy options
- Quality plans for critical issues
- Detailed planning systems
- Managing efficient preparation and execution
- Managing and minimising emergent work
- Management safety
- Achieving a smooth and leak-free start-up
- Performance reporting, cost monitoring and lessons learnt

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Targeted Audience

This course is designed for professionals who manage all significant aspects of shutdowns and turnarounds. Additionally, the course will be highly valuable to all professionals, particularly engineers, who are involved in this area of the business. For other support personnel engaged in shutdowns, the course will provide valuable insights and put key issues and approaches into perspective, highlighting the need to manage them effectively to achieve business success.

Course Methodology

Facilitated by an experienced professional trainer, this training course will be conducted as a highly interactive workshop session. A variety of training methodologies and facilitation techniques will be employed before and during the course, as applicable. These methods are aimed at enhancing individual and group interaction while maximising learning. Some of these methods are:

- Online Pre-post Test
- Colourful Visual Aids
- Gamification
- Self-Assessment Instruments
- Simulations
- Case Studies
- Videos
- Group Exercises & Discussions
- Role plays
- Indoor & Outdoor games