# BEST PRACTICES FOR EFFECTIVE OPERATIONS PRODUCTION & PLANT MANAGEMENT



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# TRAINING TITLE

BEST PRACTICES FOR EFFECTIVE OPERATIONS PRODUCTION & PLANT MANAGEMENT

# <u>VENUE</u>

Dubai, UAE

# **DURATION**

5 Days

# **DATES**

15-19 September 2019

## **PRICE**

US\$4,000 per attendee including training material/handouts, morning/afternoon coffee breaks and Lunch buffet.

#### TRAINING INTRODUCTION

Technology and Continual Improvement training course will be conducted along workshop principles with formal lectures and interactive worked examples. The emphasis in this training will be on the explanation of all technical phenomena and providing answers to problems that are encountered in everyday industrial practice related to maintenance, repair and alterations of process equipment. Each learning point will be reinforced with practical examples. There will be ample opportunities for active discussion and sharing professional experiences and exchange that will help.

#### TRAINING OBJECTIVES

#### Upon the successful completion of this course, participants will be able to:

- To assist participants in understanding the main elements of plant optimization the way how to achieve and realize potential benefits
- To enhance the business focus of participants and equip them to make more contributions to sustainable plant profitability
- To equip maintenance professionals, planners and engineers with the knowledge to select the most appropriate methodologies for their maintenance decision-making
- To learn how to identify the potential for reduction of energy consumption
- To provide participants with practical and effective methods and tools to perform technical and economic evaluations of the alternatives

### TRAINING AUDIENCE

- Process plant technical professionals: engineers, technicians and operators
- Engineers, supervisors, operations and maintenance personnel, as well as for project engineers
- Engineering and technical personnel involved in improving process plant profitability and energy efficiency

## TRAINING OUTLINE

Day One: Overview of Optimization Technologies

- Overview of Optimization Technologies for Process Plants
- Elements of Process Plant Optimization Procedure
- Constraints in Optimization: Production, Operation, Economy and Environment
- Optimization Approaches: Mathematical Models and Physical Models – prototype units
- Correlation between Process Optimization and Process Control in Typical Process Plant
- Workshop: Examples and Solutions

Day Two: Reliability, Availability and Effectiveness

- Relationship between Plant Reliability and Availability
- Optimization of Plant Reliability
- Optimization of Plant Availability through Improved Maintenance
- Analysis of Effectiveness of Individual Equipment
- Optimization of Overall Plant Effectiveness
- Workshop: Examples and Solutions

Day Three: Best Practices for Energy Consumption

- Optimization Strategies Aimed at Energy Consumption Reduction
- World Standards and Benchmarking Guidelines
- Best Practices in Process Plant Energy Management
- Energy Conservation Check List in Typical Industrial Plants
- Optimization of Heat Production and Steam Distribution and Consumption
- Workshop: Examples and Solutions

Day Four: Maintenance Management System

- Optimization of Utilization of Piping Systems and Pipelines
- Optimization of Utilization of Pumps, Compressors and Fans

- Optimization of Maintenance Management System and Frequency of Maintenance
- Optimization of Spare Parts Management through Predictive Maintenance
- Optimization of Repair and Alteration Programs in Accordance to Existing Codes
- Workshop: Examples and Solutions

Day Five: Minimization of Equipment Failure

- Risk Based Inspection (RBI)
- Procedures for Minimizing Risk of Equipment Failure
- Fitness For Service (FFS) Analysis and Estimate of Remaining Life of Equipment
- Optimization of Plant Economy through Planned Equipment Replacement

## TRAINING CERTIFICATE

**MAESTRO CONSULTANTS** Certificate of Completion for delegates who attend and complete the training course

## **METHODOLOGY**

Our courses are highly interactive, typically taking a case study approach that we have found to be an effective method of fostering discussions and transferring knowledge. Participants will learn by active participation during the program through the use of individual exercises, questionnaires, team exercises, training videos and discussions of "real life" issues in their organizations. The material has been designed to enable delegates to apply all of the material with immediate effect back in the workplace.