

Course Title		
Production Operation Optimization & Problem Solving		
Credit Hours	Venue	Date
25 H	Dubai - UAE	1 <sup>st</sup> – 5 <sup>th</sup> December , 2024

### Objectives

**By the end of this Course participants will be able to:**

- Gain a broad understanding and appreciation of the core functional aspects of how an effective operational process should operate .
- Review the five standard maintenance improve tactics and their selection technique to ensure reliable process plant equipment .
- Learn how to develop a comprehensive operational process resource and support system analysis.
- Understand the principles of PAS 55, the most recent maintenance process audit standard.
- Gain insight and understanding into the unique leadership and motivation principles required for technical management
- Create and apply a troubleshooting methodology.
- To provide the participant with a broad based foundation of subjects concerning the management of production and operations systems. The various aspects of production planning, scheduling, control and other related management issues are addressed.

### The Delegates

- Engineering and Technical Managers and Supervisors from any industry.
- Maintenance Planners , Operator and Coordinators.
- Operations and Manufacturing Managers and Supervisors.
- Foremen and Team Leaders.
- Plant Engineers and Process System Managers.
- Section Engineers and Planners .
- All Production staff, Operators , Experienced process engineers and facilities engineers who want to learn more about production processes are started and operated.

### Contents

- **Introduction and Course overview.**
- **Review of Basic Modern Operations Practice :**
  - Review of modern operational practice in the light of the global economic recession.
  - Integration of maintenance and production to establish a world class operations department.
  - Generic performance measurement model using a 6 point scale.
  - Combining the parameters of speed, quality, and cost in maintenance performance measurement.
  - The 10 point planning standard and the role of the planning department.
  - Developing effective strategies for the operational process in order to achieve organizational excellence through continuous improvement.
- **Standard Maintenance Improvement Initiatives :**
  - Selecting the 'correct' maintenance tactic mix.
  - Reliability Centered Maintenance (RCM).
  - Total Productive Maintenance (TPM).
  - Condition Based Maintenance (CBM).
  - Time Based Maintenance (TBM).
  - Run-To-Failure (RTF).
- **Operational Resource Analysis :**
  - A 'blueprint' for effective operational practice.
  - Resource and support system analysis with 'Gap Analysis'.
  - Leadership development and motivation of operations employees.

- The PAS 55 Maintenance Process Standard.
- Principles of information management.
- Risk identification, assessment and control.
- Training, awareness and competence.
- **Problem Solving in the Operations Environment :**
  - Theory of inventive problem solving
  - Problem solving techniques and case studies
  - Exercises and facilitation
- **Scenario Analysis and Action Plan Development :**
  - Review and analysis of your specific operations environment .
  - Assessment assignment and scoring of your operational process .
- **Production Planning Models**
  - Single and Multi stage Models
  - Production and Workforce Smoothing
  - Aggregate Production Models
- **Methods and Measurement**
  - Process Analysis
  - Time and Motion Study
  - Work Sampling
- **Operations Scheduling**
  - Heuristic Models
  - Job shop; Line Balancing
  - Sequencing
  - Loading
- **Advanced Topics**
  - Daily production reports
  - Enterprise Resource Planning System
  - Customer Relationship Management
  - Service Industry
- **Corrective Action**
  - Criteria for event description
  - Cause and effect analysis corrective action definitions
  - Corrective action order of precedence
  - Advantages and disadvantages of design modifications, process modifications, procedural modifications, requirements relaxation, screening, and other potential corrective actions
  - Evaluating corrective action effectiveness. Inspection caveats
  - Corrective action class exercise.
  - Corrective Action Requirements.
  - ISO 9001 root cause identification and corrective action requirements
  - The ISO 9001 Management Review
  - Pareto analysis
- **Emergency Control, And Benefits to Be Obtained**
  - The Characteristics and Facilities Required for Emergency Control
  - The System and Demand
  - System Control Costs for Emergencies
  - Indirect Costs
  - The Benefits of Emergency Control

# Title

## Training & HR Development



- Quantitative Aspects
- Is Emergency Control Worthwhile?
- Case study

- **Course summary.**

<b>Discount</b>	<b>Language</b>	<b>Fees</b>
10% in case of Three P.	English & Arabic	5000 USD
<b>Timetable</b>	<b>How to Register ?</b>	<b>Other Dates</b>
09:00 Am : 11:00 Am (1 <sup>st</sup> Section) 11:00 Am : 11:15 Am (Break 1) 11:15 Am : 12:45 Pm (2 <sup>nd</sup> Section) 12:45 Pm : 01:00 Pm (Break 2) 01:00 Pm : 02:00 Pm (3 <sup>rd</sup> Section)	<a href="http://www.titlehr.com">www.titlehr.com</a> <a href="mailto:Info@titlehr.com">Info@titlehr.com</a> Tell   00971559687070	14 – 18 July , 2024