

Training Title

**ADVANCED OPERATIONS AND SHUTDOWN MANAGEMENT**

Training Duration

**5 days**

Training Date

|               |  |          |                       |                |                   |
|---------------|--|----------|-----------------------|----------------|-------------------|
| <b>PE0341</b> | <b>Advanced Operations and Shutdown Management</b> | <b>5</b> | <b>22-26 Jan 2024</b> | <b>\$5,500</b> | <b>Dubai, UAE</b> |
|---------------|--|----------|-----------------------|----------------|-------------------|

**In any of the 5 star hotels as mentioned below. The exact venue will be informed once finalized.**

**1. DoubleTree by Hilton Hotel & Residences Dubai – Al Barsha**

P.O. Box 72584, Dubai - United Arab Emirates  
DoubleTree.com

**2. Elite Bybloss Hotel**

www.elitebyblosshotel.com  
P.O. Box 390531 Dubai - United Arab Emirates

**3. MILLENNIUM PLAZA DOWNTOWN HOTEL DUBAI**

23215 | Sheikh Zayed Rd | Trade Centre | Trade Centre 1 | Dubai, United Arab Emirates  
W www.millenniumhotels.com

Training Fees

- **\$5,500 per participant for Public Training includes Materials/Handouts, tea/coffee breaks, refreshments & Buffet Lunch**

Training Certificate

**Define Management Consultancy & Training Certificate of course completion will be issued to all attendees.**

**Language: English**

[www.definetraining.com](http://www.definetraining.com)

**COURSE DESCRIPTION**

This comprehensive training program covers advanced pigging operations, advanced flaring system operation, and emergency shutdown systems in the oil and gas sector. Participants will be equipped with the knowledge and skills needed to effectively plan, conduct, and monitor pigging activities while ensuring control over protection systems.

The oil and gas industry are surrounded with examples of poor Turnarounds, which have injured people and damaged businesses. If Turnarounds are not properly planned, managed and controlled, companies run the risks of serious safety and budget penalties, costly schedule

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delays and negative impacts on customers. As a consequence, operators are starting to explore Turnaround best practices and establish a more robust methodology.

Turnarounds are the highest risk activity that we routinely perform in the industry, but they are also an area of massive variability in approach and outcome. Central to the variability is a lack of written methodologies and training – there are around 1,000 times as many books on maintenance as there are on turnaround management. All too often companies see Turnarounds as something to be survived and therefore it is no surprise that most Turnarounds fail.

The purpose of this course is to equip the participants on the use of the Model of Excellence for Operations and Turnarounds and the principles of Challenge Planning to equip attendees with an advanced approach to Turnaround Management. The course is backed by real situations, high levels of interaction, group exercises and multiple case studies. It will explore the underlying mechanisms and levers that shape a Turnaround to demonstrate why we sometimes succeed or fail and introduce new conceptual approaches that can increase our chances of succeeding.

### **OBJECTIVES:**

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

- Understanding the concept in details of oil & gas processes operations and shutdown management
- Position Turnarounds as part of an overall strategy of improving business performance.
- Build the best Turnaround team possible from available resources.
- Help senior management build effective steering teams.
- Reduce the downtime associated with turnarounds while simultaneously improving safety performance.
- Use the Model of Excellence to analyse their own performance, explain key principles to others and build a detailed methodology of their own.
- Maximize the benefits of planning and preparation through a proactive challenge planning process where the participants will build a Turnaround from the ground up from concept to execution and review.

### **What you will learn**

- Understanding oil & gas processes operations
- Shutdown management
- Position Turnarounds
- Build the best Turnaround team
- Build effective steering teams.
- Simultaneously improving safety performance.

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- Model of Excellence to analyses of own performance.
- Planning and preparation through a proactive challenge planning process where the participants will build a Turnaround from the ground up from concept to execution and review.

### **WHO SHOULD ATTEND:**

This course has been researched and developed for Experienced Managers, Superintendents, Supervisors, Engineers, Planners, Team Leaders and Coordinators of:

- Section Head (Gas), Snr Gas Engineer, Controller Gas in the oil and gas sector
- Skills in Gas Operations and Operations Common
- Shutdowns/Turnarounds
- Maintenance
- Engineering
- Reliability
- Plant
- Outage
- Asset Management

### **COURSE OUTLINES**

#### **Day (1):**

##### **Day One: Operations Shutdown Types & Asset Pairing**

- Definitions of Shutdown, Turnaround
- Material failure and degradation in Operations using API 579
- Operations structure and unit's sensitivity to failure
- Failure rate mathematics the basis of Reliability center maintenance
- Shutdown and the life cycle of oil & Gas processes facilities
- Illustrative related video
- Workshop – learned lessons
- Day (1) quiz

#### **Day (2):**

##### **Day Two: Shutdown & Turnaround Planning**

- Oil & Gas process Work Order system (WO) input for Planning
- Size of work using API 579 and create Work Breakdown Structure (WBs)
- Creating the most appropriate organization structure to run the shutdown
- Spare parts and materials required for the shutdown

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- Personnel internal or subcontractors required for shutdown
- Illustrative related video
- Workshop – learned lessons
- Day (2) quiz

**Day (3):**

Day Three: Organizing the Shutdown Time Sequencing

- Work sequencing optimization
- Material –personnel- contractors’ constraints
- Fitting the optimum number of shutdowns in the life cycle of Plants
- Utilization of timing techniques (CPM-PERT)
- Illustrative related video
- Workshop – learned lessons
- Day (3) quiz

**Day (4):**

Day Four: Control of Shutdown Time, Costs & Work Quality

- Gantt charts for keeping in time
- S- curve usage for budget monitoring
- Financial reserves for uncertainties
- ISO/API standards for work handover
- Illustrative related video
- Workshop – learned lessons
- Day (4) quiz

**Day (5):**

Day Five: Shutdown Performance Analysis & Turnaround Efficiency Measurement

- Asset Turnaround Performance Indicators
- Shutdown Workload Performance Indicators
- Shutdown Planning Performance Indicators
- Turnaround Effectiveness and cost Performance Indicators
- Shutdown and Turnaround data archiving and future recommendations
- Illustrative related video
- Workshop – learned lessons

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- Competency exam

### COURSE METHODOLOGY

The training course will be highly participatory and the course leader will present, guide and facilitate learning, using a range of methods including formal presentation, discussions, sector-specific case studies and exercises. Above all, the course leader will make extensive use of real-life case examples in which he has been personally involved. You will also be encouraged to raise your own questions and to share in the development of the right answers using your own analysis and experiences. Tests of multiple-choice type will be made available on daily basis to examine the effectiveness of delivering the course.

- 30% Lectures
- 30% Workshops and work presentation
- 20% Case studies & Practical Exercises
- 10% Role Play
- 10% Videos, Software or Simulators (as applicable) & General Discussions

Case Studies, Group Discussions, Last Day Review, Assessments will be carried out.

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P.O BOX 45304  
ABU DHABI, U.A.E

T +971 2 6264455  
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**MEETING ROOM PICTURES:**



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