**Training Title**
## PROCESS PLANT START-UP, COMMISSIONING & TROUBLESHOOTING

**Training Duration**
**5 days**

**Training Venue and Dates**

| REF PE046 | Process Plant Start-up, Commissioning & Troubleshooting | 5 | 22-26 April 2024 | $6,500 | London, UK. |
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**Will be held at any of the 5-star hotels. The exact venue will be informed soon upon finalizing.**

**Training Fees**
- **$6,500 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.**

**TRAINING OVERVIEW**

**TRAINING DESCRIPTION**

**Upon completion of this course, participants will gain knowledge of the problems and their sources associated with first-time start-ups. They will have the necessary skills for anticipating and avoiding financial, technical, operational, and organizational problems associated with start-up.**

**TRAINING OBJECTIVES**

**The initial start-up of any plant, irrespective of size, type, or industry, is a unique occurrence. Therefore, start-ups pose some special problems. Lack of experience in dealing with these problems has frequently resulted in prolonged and costly startups. This course will provide guidelines for all those involved in the execution of a project on how to achieve a successful plant start-up. The requirements for start-up-oriented thinking at all stages of the project, from engineering to commissioning, will be demonstrated.**
**The course material covers estimating of start-up costs, personnel requirements, and resources. It defines the vital role of project management and plant personnel in the preparation and planning for successful start-up of any process plant. Emphasis is on effective planning and use of available resources, both material and manpower.**

**Upon completion of this course, delegates will gain knowledge of the problems and their sources associated with first-time start-ups. You will have the necessary skills for anticipating and avoiding financial, technical, operational, and organizational problems associated with start-up.**

**WHO SHOULD ATTEND**
**This course is designed for project managers, plant managers, plant supervisors, technical staff, and contractor personnel involved in project execution and plant start-up in any process industry. The**

greatest benefit arises from the application of these start-up-oriented ideas throughout a project, beginning at the conceptual phase. The practical techniques and examples provide useful insights that are valuable at any stage of project execution and preparation for start-up.

TRAINING METHODOLOGY:

This training program is lecture-based and customized to the needs of the audience, providing meaningful experience for personnel that work in petroleum plants.

Daily sessions include formal presentation, prepared in the Power Point, interspersed with directed discussions and case study.

In addition to formal lectures and discussions, the delegates will learn by active participation through the use of problem-solving exercises, group discussions, analysis of real-life case studies etc.

All attendees receive a course manual as a reference.

A highly interactive combination of lectures and discussion sessions will be managed to maximize the amount and quality of information and knowledge transfer. The sessions will start by raising the most relevant questions and motivating everybody to find the right answers. 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 the multiple-choice type will be made available on a daily basis to examine the effectiveness of delivering the course.

Very useful Course Materials will be given.

- **30% Lectures**
- **30% Workshops and work presentation**
- **20% Group Work& Practical Exercises**

**20% Videos& General Discussions**

COURSE OUTLINE

TERMS AND TOOLS
- **Introduction**
- **Start-Up Problems**
- **Discussion**
- **Start-Up Planning**
- **Start-Up Cost Prediction**
- **Minimizing Equipment Problems**

MANAGEMENT
- **Start-Up Safety and Environmental Issues**
- **Start-Up Management**
- **Start-Up Manpower**
- **Start-Up Leadership**
- **Discussion**

IN THE FIELD
- **Construction Inspection**

*DMCT/OL/9/18(Rev3Dt:23/9/18)*

- **Construction Completion—the Beginning of Start-Up**
- **Commissioning—The Heart of Start-Up**
- **Start-Up Operations**
- **Discussion**

**START- UP TROUBLESHOOTING**
- **Technical Issues**
- **Solutions**
- **Implementing Changes**

**START- UP and PROCESS SIMULATION (HANDS-ON DEMONSTRATION)**

**SHUTDOWN and DECOMMISSIONING**
- **Normal Shutdown**
- **Decommissioning and demolition**

**Note:**
Pre & Post Tests will be conducted.
Case Studies, Group Exercises, Group Discussions, Last Day Review & Assessments will be carried out.

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