

**Training Title**

**PROCESS SAFETY AND SAFE ISOLATION OF PLANT EQUIPMENT**

**Training Duration**

5 days

**Training Date**

<b>PE560</b>	<b>Process safety and Safe Isolation of Plant Equipment</b>	<b>5</b>	<b>29 Jan-02 Feb 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.definettraining.com](http://www.definettraining.com)

**INTRODUCTION**

The safe isolation of plant and equipment is essential to allow various processes to take place, such as: cleaning, maintenance, repair and modification. Failures during the isolation and re-instatement of plant and equipment are a significant cause of loss of containment incidents and can lead to major accidents. In some cases, the isolation may take place a long way from where the work is being carried out. Suitable procedures need to be implemented, managed, monitored, reviewed and revised. The effectiveness of an isolation system depends on the adequacy of other arrangements, including work control systems (especially

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

permit-to-work), operating procedures, training and competence, management of change and contingency plans.

Extensive guidance for isolation of plant and equipment in chemical industry, oil & gas industry and petrochemical industry is very important to eliminate and prevent hazard. This guidance will lead to enable duty holders to develop, review and enhance isolation standards and procedures.

Examining principles and legal considerations, it advises how to isolate plant and equipment safely and how to reduce the risk of releasing hazardous substances during intrusive activities like maintenance and sampling.

The methodology Includes for selecting 'baseline' standards and outlines preventive and risk reduction measures. In scoping the pertinent issues, it considers broad matters (eg work control systems or documentation) and specifics like draining or venting. With many detailed diagrams and easy-glance reference tables

### COURSE OBJECTIVE

- The participant will provide with training and the opportunity to demonstrate competence against a recognized standard.
- The participant will understand the HSE standards (HSG 253) "The safe Isolation of Plant and Equipment'
- The participant will understand how to prepare the plant and Equipment for maintenance
- The participant will understand the fundamentals & principle to isolate the Plant and Equipment
- The participant will understand the de-Isolate the plant and Equipment
- The participant will understand the guide line for vessel Entry permission and issuing entry permit
- The participant will understand the issuing of work permit different types cold & hot work permit.

### WHO SHOULD ATTEND

Engineers or Technicians who require, or may be required to carry out or supervise the safe isolation of process plant equipment.

### COURSE SCHEDULE

#### Day-1

- Course introduction.
- Overall plants unit operation.

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

- Details of plant equipment
- Plant processing and define the hazard and hazardous material.

#### Day-2

- The management of isolation of plant and equipment.
- Assessments of the risks arising from the isolation of plant and equipment.
- Operation requirement for plant and equipment isolation.
- Establishing policies and procedures has to be implement for plant and equipment isolation.

#### Day-3

- The safe systems of work for the isolation of plant and equipment.
- Competent of personnel implementing the plant and equipment isolation.
- Procedures of plant and equipment isolation.
- Procedure for monitoring during the implementation of plant and equipment isolation.

#### Day-4

- The key stages for the safe isolation of plant and equipment.
- The effectiveness of plant and equipment design during safe isolation.
- Roles and responsibilities during plant and equipment isolation.

#### Day-5

- Training and competence relating to incident during plant and equipment isolation.
- Auditing and reviewing during implementation of plant and equipment isolation.
- Human factor during implementation of plant and equipment isolation.
- Course review.

### 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

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



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

**MEETING ROOM PICTURES:**



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

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

T +971 2 6264455  
F +971 2 6275344

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



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

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

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

T +971 2 6264455  
F +971 2 6275344

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