

C.R. 2055024564 ۲.00

ت.س. ۲۲۵۶۲٬۵۵، ۲

## Learning Topic: Technical (Plant Processes & Operations).

**Course Name:** Refrigeration

**Reference Code: PLOP 116** 

## **Course Overview:**

This course is one of the basic training courses for any operation staff member.

This course covers the original Refrigeration Basics section. It covered a lot of material but this was done by just barely skimming the surface of things. The course gives a general idea of what refrigeration is and how it is accomplished.

The course then investigates all components of a mechanical refrigeration system, how they work and how to control them.

# **Course Objectives**:

### Applying the concepts covered in this training course, delegates will be able to:

- 1. Understand the concept of refrigeration.
- 2. Describe the basic components of a mechanical refrigeration system.
- 3. Describe the applications of mechanical refrigeration systems.
- 4. Describe how to control a mechanical refrigeration system.

# **Training Methodologies:**

The training methodology is interactive and is suitable for all employees involved in maintenance and operations management enhancing the following:

- Pre-test and Post-test
- Variety of Learning Methods & examples
- Presentation
- Lectures
- Group Work

# Who should attend?

**Operation engineers** 

### **United Arab Emirates**

Emirates Towers, Level 41 Sheikh Zayed Road Dubai-UAE. P.O Box 3103

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### Kingdom of Saudi Arabia

Khobar Gate Tower King Fahad Street , Khobar 31952

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Operations technicians Operators Maintenance technicians Any interested plant personnel in stores, warehouse, safety, procurement, logistics...etc.

# **Training Outline:**

## <u>Day 1:</u>

Course Introduction & Lesson 1: Refrigeration Basics, Principles of heat transfer & Main Components

## <u>Day 2:</u>

Lesson 2: Condensing Unit, Definitions, Charging

## **Day 3:**

Lesson 3: Heat Pumps, Split System Heat Pumps

## **Day 4:**

Lesson 4: Controls, Thermostatic Control, Pressure Control, Operating & Safety Controls

## <u>Day 5:</u>

Lesson 5: Operating & Safety Controls, Pump Down System, Relays, Contactors & Course Conclusion

**Duration:** 5 Days

## Venue:

Numbers of hours: 30 Hours

Time: 08:00 AM -02:00 PM

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