Training Title

PRACTICAL FIBER OPTIC TECHNOLOGY

Training Duration

5 days

Training Date

REF EE019	Practical Fiber Optic Technology	5	15 - 19 December, 2019	$4,250	Dubai, UAE

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

Training Fees

- **4,250 US$ 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

TRAINING DESCRIPTION

This comprehensive Five-day workshop will provide you with the necessary background to understand the fundamentals of fiber optic systems and their individual components including fibers, cable construction, connectors, splices and optical sources and detectors. Various pitfalls associated with the implementation of fiber optic systems are discussed and workable solutions to these problems are provided. It will provide you with the knowledge to develop the required techniques for design, installation and maintenance of fiber optic systems. The workshop places significant emphasis on the practical techniques of component installation and system design. You will have the opportunity to get hands on experience with mechanical and fusion splicing and with fitting the popular industrial fiber connectors. At the conclusion of the course you will gain know-how in interfacing, integrating and troubleshooting fibers. To introduce trainees to Fiber optic cable technology & Optronic systems theory, history, developments, maintenance, measurements, testing & potential applications in Oil& Gas and other industries

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TRAINING OBJECTIVES

- **Solid knowledge of fiber optic communications systems**
- **State of the art fiber optics technology and installation practices**
- **Correct procedures for cable installation and termination**
- **Learn how to design and install your own fully operational fibre optics system**

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▪New approaches to troubleshooting

WHO SHOULD ATTEND

Telecom, instruments& plant maintenance staff & other personnel interested in modern technological developments& applications. No special background required.

TRAINING METHODOLOGY

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 motivate everybody find the right answers. The delegates will also be encouraged to raise their own questions and to share in the development of the right answers using their own analysis and experiences. Tests of multiple-choice type will be made available on daily basis to examine the effectiveness of delivering the course. Booklet, Power-Point presentations, Handouts, Videos, User group discussions and practices on case study

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

COURSE OUTLINES

- **Fundamentals of Optics**
- **Fiber optic components**
- **Types of Optical Fibers**
- **Properties of Optical Fibers**
- **Fiber Materials& manufacture**
- **Fiber Cables**
- **Light Sources**
- **Transmitters& Receivers**
- **Light Amplifn., Regen.& WL Conversion**
- **Active & Passive Components**
- **Optical WDM**
- **FOC Industrial& Medical Applications**
- **FOC Testing & Troubleshooting**

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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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