

CERTIFIED FIBER OPTIC TECHNICIAN (CFOT)

(Course Code : AJ 3303)



Course Length (Days)	Taught Hours	Practical Content (%)	Theoretical Content (%)
03	21	50	50

TARGET AUDIENCE

Operation & maintenance personnel, plant & facility managers, M&E consultants & contractors, fire/safety officers, etc within various industries: marine & offshore, oil & gas, petrochemical, building & construction, automotive, civil defence, insurance (risk asset management), energy/power generation, security & surveillance.

COURSE OBJECTIVES

Program prepares the student to take the CFOT (Certified Fiber Optics Technician) exam given and graded at the end of class. Student will be able to understand the fiber optic technologies and effectively and efficiently install and terminate various types of connectors using different termination methodologies on multimode/singlemode fiber optic networks. He would be able to test the link and interpret the fiber test results obtained using Power Meter & Light Source and OTDR.

COURSE CONTENT

Introduction to FOA

Who is FOA and its functions as a association
Why the need to be a CFOT?

Fiber Optic Technology

Fundamentals of Fiber Optics
Applications of Fiber Optics

Jargons used in Fiber Optics

Terms associated with Fiber Optics

Fiber Optic Safety

Safety when handling Optical Fiber

Optical Fiber and Fiber Optic Cables

Fundamentals of Fiber Optics
Applications of Fiber Optics

Fiber Connectors and Splices

Types of connectors
Methods of terminations

Fiber Optic Design and Installation

Installation of indoor cable
Installation of outdoor cable
Hardware used for indoor fiber cabling
Hardware used for outdoor fiber cabling

Fiber Optic Testing

Introduction to equipment used in testing optical fiber links

Tools

Introduction to tools and equipment

Pathway Systems

Introduction to Underfloor Ducts, Access Floors/Raised Floors, Conduits, Cable Trays, Cable Ladders, Fiber Ducts, Cable Baskets, Perimeter Raceway Systems, Cable Mat floor cover, Trunkings

Hands-on Practical Sessions

Installation of fiber optic cable on overhead cable tray
Installation of fiber optic cable on cable tray below raised floor
Stripping of fiber cable
Termination of LC connector using epoxy and polishing method

Hands-on Practical Sessions

Termination using mechanical splices method
Termination using fusion splicing method

Hands-on Practical Sessions

Testing using Optical Power Meter and Light Source
Testing using OTDR

Assessment

Written assessment

DELIVERY

Teaching aids, sample boards, slides, questionnaires, theory assessment.

CERTIFICATION

CFOT Certificate issued by FOA

Completion Certificate issued by 100G/ATTS

Minimum Number Of Delegates Required Per Event

15

Times Of Training

09:00 to 17:00

Venue

No. 3 Buroh Street, Singapore 627566

Special Requirements

Nil

Dates And Prices

Please check with course administrator.