Fiber Optic Technician (CFOT) Training

mictseta
ACC/2012/05/771
SAQA ID 246720
NQF Level 05
Credits 16

2026 Date/s
24 - 27 November - Available
Venue
Queensmead Hockey Stadium 44 Teignmouth Rd Umbilo Berea Durban

Cost: R 9 450.00 p.p. incl. VAT

Duration: 4-days

Time: 08h30 to 16h30

Final Day: 0830 to 12:30

Confirmation: Registrations cannot be confirmed until payment is made in full

Should you have any questions about the course content, please feel free to contact:

Joe Botha
Mobile: +27 (0) 82 464 0386
Email: joe@tripleplay.co.za

ACCREDITATION:

Regarding the accreditation, we issue students on the final day of training, with a certificate containing The Fiber Optic Association, Inc. (FOA) (internationally recognised) and MICT SETA credentials. Students will also receive a barcoded certificate from the FOA along a digital badge, which they can use on online platforms. Read more about this here https://www.foa.org/Badge_FO.html

Additionally, students will receive a SoR from MICT SETA.

GENERAL INFORMATION:

Fusion splicing, acceptance testing, troubleshooting and much more are taught with lots of hands-on practice.

Comprehensive hands-on activities and the underlying theory are combined to provide a firm understanding of the concepts underpinning the deployment of optical communication networks.

WHO SHOULD ATTEND?

No previous experience is necessary. This training program is not limited to installers or technicians, it is an excellent credential for sales and marketing personnel, indicating their comprehensive knowledge of the industry and building confidence in their assistance to their customers.

THE INSTRUCTORS:

Each of the instructors involved in this course has three decades of optical fiber experience (from the early 80s) and we welcome the opportunity to share our knowledge, insight and experience with you.

ACCREDITATION

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The Fiber Optic Association, Inc.
FOA
Approved Fiber Optic Training

Course Content - Summary

DAY ONE 08:30 - 16:30

- Introduction to Fiber Optics
- What is Fiber Optics?
- Fiber manufacturing
- Fiber advantages
- How fiber works
- Refraction & Reflection
- Fiber Types:
  - OM 1, 2, 3, & 4
  - SM G.652, G.655, G.656 & G.657
- Mixing G.652, G.655, G.656 and G.657
- Cut-off wavelength
- Frequency
- Numerical aperture
- Mode-field diameter
- What is an Optical Network?
- Transmitters and transceivers
- Optical modulation
- Optical fiber parameters
- CWDM and DWDM
- Attenuation, Scattering & Absorption
- Inter Modal and Chromatic Dispersion
- Polarization Mode Dispersion
- Coefficients and system performance
- Amplifiers and Attenuators
- Loose tube and Tight buffer
- Choosing a Cable
- Cable specifications
- NEC Ratings
- Cable plant hardware
- Optical Fiber Cable Color Coding
- Best practices for installing cable
- Bonding and grounding
- Pulling and erecting fiber optic cable
- Floating Cable
- Slack management
- Fiber Optic Installation Safety Rules

DAY TWO 08:30 - 16:30

FUSION SPLICING

HANDS-ON Practical Session

- Fusion splicing
- Mid spanning / Loop Joint
- Fiber optic panels, enclosures and termination boxes

DAY THREE 08:30 - 16:30

TESTING, TROUBLESHOOTING & MORE SPLICING

- OTDR and iOLM testing
- Testing at various wavelengths
- Troubleshooting procedures
- Acceptance testing
- Loss and Power Budget calculations
- Insertion loss testing
- Documenting test results
- Mode-Field Diameter issues
- Measurement units
- Cleaning connectors

HANDS-ON Practical Session

- Working with the following test instruments: OTDR, iOLM, OLTS, Visual Fault Locators, Fiber Microscopes, Power Sources, Power Meters, Dark Fiber Identifiers.

DAY FOUR 08:30 - 13:00

- WRAP-UP AND TEST

Please complete the Registration Form below and submit for invoicing to:
register@tripleplay.co.za

DELEGATE 1. R9 450.00 incl. VAT: **DELEGATE 2. R9 450.00 incl. VAT:**

Name:		Name:	
Surname:		Surname:	
Mobile:		Mobile:	
Email:		Email:	

For companies only:

Company Name:	
VAT Registration #	
Contact Person:	
Telephone:	
Email:	