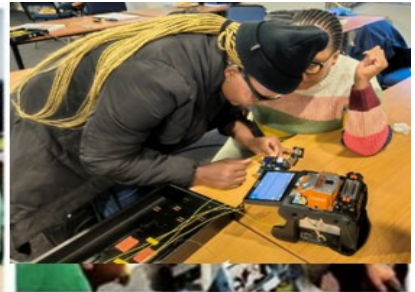


Fiber Optic Technician (CFOT) Training



2026 Date/s
20 - 23 October - Available
Venue
Durban Queensmead Hockey Stadium 44 Teignmouth Rd Umbilo Berea



Cost: R 9 450.00 p.p. incl. VAT
Duration: 4-days
Time: 08h30 to 16h30
Confirmation: Registrations cannot be confirmed until payment is made in full

How to Register for this course

Please complete and email page-4 to:

register@tripleplay.co.za

Or go to <http://www.tripleplay.co.za/> to register online

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

Course Content - summary

DAY ONE 08:30 - 16:30

- ◆ Introduction to Fiber Optics
- ◆ What is Fiber Optics?
- ◆ Fiber manufacturing methods (video)
- ◆ 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 and Absorption
- ◆ Inter Modal and Chromatic Dispersion
- ◆ Polarization Mode Dispersion
- ◆ Coefficients and system performance
- ◆ Amplifiers and Attenuators
- ◆ Cable Types
- ◆ 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 fiber optic cable
- ◆ Floating Cable
- ◆ Slack management
- ◆ Fiber Optic Installation Safety Rules

DAY TWO 08:30 - 16:30

SPLICING: FUSION and MECHANICAL

- ◆ Choosing a Splice Type
- ◆ Cable and fiber preparation techniques
- ◆ Fusion splicing techniques
- ◆ Splice Loss - cause and remedy
- ◆ Fusion splicer maintenance and cleaning
- ◆ Connector types
- ◆ Termination procedures

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 characterization
- ◆ Testing at various wavelengths
- ◆ Troubleshooting procedures
- ◆ Acceptance testing
- ◆ Loss and Power Budget calculations
- ◆ Calculate admissible lengths
- ◆ Insertion loss testing
- ◆ System Certification
- ◆ Documenting test results
- ◆ Gainers and Mode-Field Diameter issues
- ◆ Measurement units
- ◆ Cleaning connectors

HANDS-ON Practical Session

- ◆ Working with the following test instruments: Visual Fault Locators, Fiber Microscopes, Power Sources, Power Meters, Dark Fiber Identifiers, OTDR's, iOLM and more fusion splicing, etc.

DAY FOUR 08:30 - 12:00

- ◆ 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:	