



TELECOMMUNICATIONS INDUSTRY
REGISTERED APPRENTICESHIP PROGRAM

FIBER OPTIC TECHNICIAN

Competency-Based Occupation

The Wireless Infrastructure Association (WIA) is the National Sponsor of the registered apprenticeship program known as TIRAP. Since 2017, WIA has administered National Standards of Apprenticeship along with the United States Department of Labor approved, apprentice-able occupations associated with the program. Graduates of the program receive a national, industry-recognized credential that certifies occupation proficiency and provides opportunities for career advancement.

TIRAP.ORG

OCCUPATION SUMMARY

The **Fiber Optic Technician (FOT)** is a member of a crew performing installation, troubleshooting, termination, splicing, testing, maintenance and repair of fiber optic cables of essential telecommunication systems, including personal wireless communications, public safety communications, utility networks, and broadcasting.

ON THE JOB LEARNING

Skills Development

- Cable Preparation (Pulling and preparing cable for splicing or termination)
- Splicing Operation (Mechanical and Fusion Splicing)
- Connector Handling (Installing, Terminating, and Inspection of Connectors)
- Shelter/Building Protocol (Shelter Assessment)
- Fiber Testing (Microscope Inspection, Fault Location, Care for Equipment, Insertion Loss Testing)
- Operate Hand and Power Tools (Drills, Splicers, Connector Tools, Saws)
- Operate trucks, trailers, and equipment (DOT regulations, Load Securement, Trenching Equipment)
- Use & Inspection of Personal Protection Equipment
- Fiber Optic Communication Basics
- Types and Property of Fiber Optic Cable
- Termination and Splicing
- Hardware Testing
- Introduction to Standards/Codes

CLASSROOM TRAINING (PARTIAL LIST)

- OSHA 10, First Aid/CPR
- RF Assessment & Exposure
- Fiber Optic Fundamentals
- Fiber Optic Network Design and Installation

POWERED BY

