

## Essential Courses 1, 2, & 3



Our mission is to provide best-in-class fiber optic training and consulting to support personnel involved in managing and building fiber optic networks as they become the next generation of industry leaders. Advanced fiber optic training designed for all professionals including IT administrators, technicians, contractors, end users,

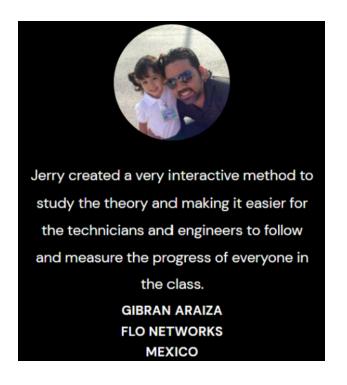
and technical sales personnel. The Optix America Fiber Optic Essential Courses are designed for individuals seeking to learn the fundamental knowledge and skills related to fiber optic technology per industry standards.



#### **Features**

- Best-in-class fiber optic training and consulting to support personnel involved in managing and building fiber optic networks
- Courses taught by Master Instructors & Training Advisors for the Fiber Optic Association (FOA)
- Master Instructors have long term experience as technical services and training managers at Tier 1 Network Operators
- Master Instructors have real world experience delivering, managing, and executing fiber optic projects for outside plant, telecom, broadband, enterprise, FTTx/FTTH, data centers, and government installations.
- Three Courses include Fiber Optic Essentials 1, Fiber Optic Essentials 2, and Fiber Optic Essentials 3
- Fiber Optic Essentials 1: Blended Online Mastery with CFOT Three Day Onsite Skills Challenge
- Fiber Optic Essentials 2: Online Mastery
- Fiber Optic Essentials 3: Company Focused Fiber Optic Training, Consulting & Project Management
- Register Now! Coming to a city near you, check schedule online







## **Fiber Optic Essential Courses**

#### Fiber Optic Essentials 1: Blended Mastery with CFOT Three Day Onsite Skills Challenge

- Industry Approved curriculum Includes self-paced learning activities, virtual instructor led sessions, in person hands-on training, and remote coaching
- Completion will meet criteria to test for the CFOT (Certified Fiber Optic Technician) credential offered by the Fiber Optic Association Inc. (FOA), in partnership with KOD.
- Course Includes Digital FOA Textbook and FOA certification test fees
- Seven week access to virtual and interactive self-led modules and online activities
- Three day Hands-on Skills Lab at customer site includes fiber preparation, fusion splicing, and fiber optic testing including OTDR trace analysis
- Virtual Instructor led sessions
- Personalized coaching
- Access to virtual community and private slack support for one year
- Upon completion, student will be prepared to pursue and advance to technical/sales and project management roles in the fiber optic industry
- Available in English and Spanish

#### Fiber Optic Essentials 2: Online Mastery

- Industry Approved Curriculum Includes self-paced learning activities, virtual instructor led sessions, and remote coaching.
- Completion will meet criteria to test for the CFOT (Certified Fiber Optic Technician) credential offered by the Fiber Optic Association Inc. (FOA), in partnership with KOD.
- Course Includes consumables on-boarding kit, Digital FOA Textbook, and FOA test fees
- Seven week access to virtual and interactive self-led modules and online activities
- Virtual Instructor led sessions
- Personalized coaching
- Digital license to FOA Reference Guide to Fiber Optics
- Access to virtual community and private slack support for one year
- Upon completion, student will be prepared to pursue and advance to technical/sales and project management roles in the fiber optic industry
- Available in English and Spanish

# Fiber Optic Essentials 3: Company Focused Fiber Optic Training, Consulting & Project Management

- Tailored network planning and design for your company's specific needs
- Project management for your specific installation
- · Custom training options for your employees
- Project plans and documentation development
- PMI based Project Lifecycle Management
- Creation of tailored elearning solutions for your organization
- Deliver Train-the-Trainer programs
- Great for Service Providers, MSO's, Coops, Contractors, End Users
- Available in English and Spanish

## **Ordering Information**

CLASS	Description
FOE-1	Fiber Optic Essentials 1 Blended Three Day Onsite + Online Mastery Course
FOE-2	Fiber Optic Essentials 2 Online Mastery Course
FOE-3	Company Focused Fiber Optic Training, Consulting, and Project Management

## **Course Outline: Fiber Optic Essentials Online Mastery**

#### **Week 0: Course Orientation**

Welcome

Fiber Essentials: User Agreement

**Learning Platform Navigation Introduction** 

What is the FOA?

**Demystifying Fiber Optics** 

Week 0: Goals Setting Assignment

## Week 1: Fiber Optic Essentials - Fundamentals

Live Session: Course Orientation and Fiber Fundamentals

Fiber Optic Theory Fiber Terminology

Intro to Codes and Standards

Fiber Safety

Week 1 Reflection Assignment: Progress and Challenges

#### Week 2: Fiber Optic Applications and Systems

Live Session: Fiber Applications and Systems

Fiber Optic Applications

Fiber Optic Transmission Systems

Fiber Optic Data Links

Fiber Optic Types

Fiber Optic Cables

Fiber Optic Connectors

Fiber Optic Termination: Connector Polishing

Fiber Optic Connectivity Hardware

Week 2 Reflection Assignment: Progress and Challenges

## Week 3: Fiber Optic Installation and Project Management

Live Session: Fiber Installation and Project Management

Project Management Essentials Fiber Optic Design Fundamentals

**Outside Plant Safety** 

Outside Plant Fiber Installation Methods and Best Practices

**Premises Fiber Installation Best Practices** 

Fiber Optic Connectivity Hardware

Servant Leadership for Telecom Professionals

Week 3 Reflection Assignment: Progress and Challenges

## Week 4: Fiber Splicing, Termination, and Testing

Live Session: Termination, Splicing, and Testing (Hands-on Prep)

Fiber Optic Essential Tools

Tools for Fiber Installation, Splicing, and Testing

**Basic Fusion Splicing** 

Fusion Splicer Operation and Maintenance

Fiber Optic Testing

Week 4 Reflection Assignment: Progress and Challenges

#### Week 5: Fiber Labs and Hands-on Exercises

Live Session: Hand-on Labs

Hands-on: Physics Lab

Hands-on: ISP Cable Preparation Hands-on: OSP Cable Preparation

Hands-on: Cable Bonding and Grounding Hands-on: Connectivity Hardware Setup Hands-on: Fiber Connector Installation

Hands-on: Fiber Connector Inspection and Cleaning

Hands-on: Splice Tray Preparation Hands-on: Fusion Splicing and Storage

Hands-on: Fiber Testing (Inspection, VFL, OLTS, OTDR)

Hands-on: OTDR Trace Analysis and Reporting

W5 Reflection Assignment: Progress and Challenges

## Week 6: Maintenance & Restoration, Project Closeout, & Course Review

Live Session: CFOT Test Prep and Course Closing

Fiber Restoration and Maintenance Fiber Project Closeout and Handover

Week 6 Reflection Assignment: Achievements and Future Goals

Career Development in the Fiber Optics Industry

## Week 7: FiberWizards Essentials Final Test

**Final Test** 

One-on-one review