Fiber Optics for Utilities

Foundational	Intermediate	Advanced

Level 1 Technician

This three-day instructor-led course teaches basic fiber optic theory and the products used in fiber networks, focusing on the proper installation and maintenance of aerial and underground utility fiber optic systems. Hands-on skills training includes splicing, termination, testing, and troubleshooting to increase efficiency, reliability, and deployment speed in the field.

Audience: Installers and technicians in the utility telecom industry

Prerequisite: Fiber Foundations is recommended, but not required.

Level 2 Designer

This one-day course examines fiber optic design parameters, cable management alternatives, route planning, optical testing requirements, test results interpretation, and cable system design.

Audience: Those involved in the design, administration, operation, and supervision of utility-based fiber optic networks

Prerequisite: Any Light Brigade foundational course like Fiber Optics 1-2-3, online training, or equivalent field experience

Level 3 Adv. Designer

This one-day course focuses on DWDM systems and transmission impairments such as PMD and CD that limit the bandwidth and operating rates of fiber optic transmission systems. It covers xWDM theory and applications with a special emphasis on fiber dispersion limits and system design considerations.

Audience: Design engineers, or project managers

Prerequisite: Knowledge of fiber optic theory, plus field experience or formal training such as Fiber Optics for Utilities Level 2 Designer

Click or scan for detailed course information and upcoming training locations.

Credentialing

UTC Fiber Optic Professional
Valid for three years.

Light Brigade Digital Badge
Complete this course and receive a Credly digital badge.

"The instructors were great at presenting the material. They showed us better ways to terminate."

—Travis Buenning, AEP

Light Brigade®

For training, tools, or equipment:
1 (206) 575-0404 • 1 (800) 451-7128 • lightbrigade.com