TS LAN 500 Training Course

Description
TS LAN 500 is a five-day course that prepares craftspeople for all aspects of fiber optic cable installation in a local area network environment. Both multimode and single-mode fiber types are covered. Cable placement, fusion and mechanical splicing, cable termination (connector installation and pigtail splicing) and acceptance testing are taught with extensive hands-on practice. Students build, test and troubleshoot complete systems in this class. Also covered is the use of equipment, hardware and procedures pertaining to building distribution and campus applications.

Targeted Student/Teacher Ratio: ≤ 8:1
Instruction: 80% hands-on
BICSI Continuing Education Credit (CEC): 33 hours RCDD®, 15 hours Installer, 18 hours Technician, 33 hours Certified Trainer
Class Size: Maximum of 12 students
Class Time: 8:30 a.m. - 5:00 p.m.
Class Length: 5 days

Curriculum

- Complete multimode and single-mode fiber optic system build
- Theory and principles of fiber optics including systems parameters
- Fiber types and fiber manufacturing techniques: multimode and single-mode fibers
- Cable types and manufacturing techniques: loose tube and tight-buffered cables
- Fire code and National Electrical Code® (NEC®) considerations
- Cable installation and placement techniques for building, duct, aerial and direct-buried applications
- Installing wire mesh pulling and split grips
- Cable preparation techniques for splicing and connectorization
- Termination methods for field-installable connectors, pigtails and preconnectorized assemblies
- Installing the Corning Cable Systems UniCam® High Performance LC, ST® Compatible and SC Connectors, in addition to anaerobic connectors
- Splicing: applications, fusion, mechanical and termination methods
- Fusion splicing with the Corning Cable Systems LID-capable, CDS and Fixed Vgroove splicers: features and troubleshooting tips
- Hardware types and applications used in a local area network
- Insertion loss testing procedures and applicability (one, two and three jumper references)
- Use and operation of the Corning Cable Systems Optical Time Domain Reflectometer (OTDR)
- Network testing and documentation: procedures and requirements
- Troubleshooting equipment and procedures
- Emergency restoration planning
- Safety: chemical safety, laser safety and fiber handling precautions