

Telecommunications Technician Curriculum

TOPIC	HOURS
Introduction, Conductors & Insulation, Low Voltage and Fiber Optic	12
Low Voltage and Fiber Optic Cables, Commercial Installation	10
Commercial Installation, Installation in Plenums, Optical Fiber Cable and Communication Cables (NEC), Coaxial CATV within Buildings	10
Lift Safety	4
Blueprint Reading	10
Raceways, Conduit, Fittings, Bushings, Locknuts, Sealings, Cable and Raceway Supports, Surface Metal and Nonmetallic Raceways	6
Cable Trays, Storing and Handling Raceways, Underground Systems, Boxes, Construction Procedures, Overview of Cabling Distribution	6
Coaxial Cable and Terminations, Optical Fiber Connections, Terminating UTP	10
Terminating UTP Cable, Legacy Connections, Lab installing various types of UTP Modules	6
Lab installing terminating Blocks including 66, 110 & BIX, Lab installing patch panels and coaxial cables	6
Review and Mid-Term Exam	6
Introduction, Fiber Optics Theory, Fiber Optics Components	8
Understanding Light Transmission, Receivers, Connectors, Couplers & Splices	8
Working with Fiber Optics, Splicing, Fiber Optic	6
Introduction, Job Estimating, Job Planning, Documentation, Scheduling	10
Acquiring materials, Assigning Labor, Completing Installation, Quality Control, Punch list, and completing the job. Retrofitting installations, Additional documentation	12
Firestopping and Review	6
Final Exam	6

Introduction and Basics of CATV Systems, Architecture of Cable Systems and Cabling	6
Satellite Technology, Head End Components and Signal Processing	6
Distribution System Components, Topologies, and System Gain Losses, Test Equipment and Signal Alignment	6
Review and Test	6
Introduction, Systems Overview and Codes and Standards	12
Audio Systems Elements and Types of Nurse Call Systems	6
Cabling, Systems Devices and Components Nurse Call Configurations, Power Supplies and Standards	6
Audio Sound/Nurse Call Systems Integration and Proper Installation Practices	6
Proper Inspection, Testing and Maintenance for Audio Sound Nurse Call Systems	6
Audio Sound/Nurse Call Systems Checkout and Commissioning	6
Review	6
Test	4
Commissioning Process Overview	6
User Training	10
Review and Test	8
Video Systems	6
Audio/Sound System	6
Wireless Communications/ Wireless LAN	10
Intelligent Building Systems/ Systems Integration	6
System Commissioning, user Training, and Team Supervision	6
Review for BICSI and NICET Certification Testing	12
Total Minimum Hours	288