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Equipment and Materials List

Systems Technician L4, 4E

Materials/Equipment

Whiteboard and markers
Pencils and paper
PowerPoint® Presentations
A variety of standard marker sizes
Poster board
Flip chart
LCD projector and screen
Computer with internet access
Module Review answer key
Module Examinations
A copy of the <i>National Electrical Code</i> ®

Performance Profile Sheets

Appropriate PPE
Speakers
Constant-voltage distribution system
Microphones
Distribution equipment
Bulk wires and cables
A variety of connectors
Bundle of cables
Audio equipment with a VU meter, a PPM, and an LED meter
Real-time analyzer
Voltmeter
Spectrum analyzer
Impedance bridge
Sound pressure level meter
Design documents including architectural drawings, equipment specifications, and schematics

Video system equipment
Video system cables and connectors
Compression-type F connectors
Sections of RG-6 cable
Selection of appropriate tools
Television broadcast receiving antennas and preamps
Broadband VHF and UHF preamplifiers
Satellite-receiving antennas and downconverters
Strip amplifiers
Single-channel converters
Agile heterodyne processors
Demodulators and modulators
Satellite receivers
Stereo encoders
Combiners and splitters
Filters
Distribution amplifiers and line extenders
Splitters
Directional couplers and taps
Attenuators and terminators
TV or monitor
Signal level meter
Cable tone test set
Satellite tester
A working broadband distribution system
Signal generator
Appropriate router or gateway hardware with manufacturer documentation
Internet access and connection point
Laptop or other suitable device for direct connection to the router
Appropriate telephone equipment
Appropriate cables and jacks
Common hand tools
PCs, monitors, and keyboards
Peripheral devices such as printers, televisions, and speakers
Laptops
Different types of security sensors: magnetic switch sensors, glass-break detectors, burglar alarm screens, shock detectors, photoelectric detectors, seismic sensors, proximity sensors
Different types of notification devices: bells, buzzers, horns, chimes, sirens
Different types of control panels
Sensors, notification devices, control panel, and tools necessary to install, program, and test a security system
An operational intrusion system with a fault planted
Testing equipment
Access to operating fire alarm system and its associated wiring diagram

Nurse call system components and a compatible annunciator
Video cameras and lenses
CCTV cameras and lenses
Monitoring equipment
Recording equipment
Cabling and networking equipment
Various recording devices
A working digital CCTV system with manufacturer's instruction manual
Handheld test units
Electric locking device; exit touch bar; controller; keypad; and tools necessary to install, program, test, and maintain
Wi-Fi® router with necessary literature
Repeater with necessary literature
Ethernet cable
Wired internet connection
Connectivity meter or laptop computer

