



Low Voltage Apprentice Job Description

Job Summary:

The Low Voltage Apprentice will assist experienced technicians in the installation, maintenance, and repair of low voltage systems, including but not limited to Fiber optics, Lighting controls, security systems, fire alarms, access control, and network cabling. This is an entry-level position designed to provide on-the-job training and develop the skills necessary to become a proficient low voltage technician.

Job Duties and Responsibilities:

- Assist with the installation of low voltage systems, including running cables, mounting equipment, and connecting wires.
- Learn to read and interpret blueprints, schematics, and technical drawings.
- Develop knowledge of various low voltage systems and their components.
- Assist with troubleshooting and repairing low voltage systems under the supervision of a technician.
- Maintain a clean and organized work area.
- Adhere to all safety regulations and company policies.
- Participate in ongoing training and education to develop technical skills.

Minimum Requirements:

- At least 18 years of age or older
- High School Diploma, GED or Equivalency
- Able to pass Basic Skills Test, Multi-Craft Aptitude Test and Color Identification Test

Physical Job Description.

Job Title	Low Voltage Apprentice
Typical Working Conditions: (Describe environment including exposure to heat, cold, fumes, chemicals, allergens, mold, etc.)	<p>Low voltage apprentices can expect a varied work environment, but generally with less physical strain than high-voltage electricians. Here's a breakdown: Work Sites:</p> <p>Indoors: A significant portion of work will be indoors, in offices, buildings under construction, or established businesses.</p> <p>Outdoors: Some installations or repairs might require working outdoors, especially for cabling or systems like security cameras</p> <p>Physical Demands:</p> <p>Moderate activity: The job involves bending, kneeling, reaching, and lifting moderately heavy equipment.</p> <p>Climbing: Ladders and scaffolding might be used for installing equipment, especially for cabling or cameras.</p> <p>Favorable conditions: Generally, low-voltage work avoids extreme temperatures or cramped spaces as much as possible.</p>
Equipment Used: (List all manual and automated equipment used in the course of performing essential functions.)	<p>A low voltage apprentice will typically use a variety of hand tools and test equipment to complete their tasks. Here's a list of some of the most common ones:</p> <p>Screwdrivers (flathead and Phillips)</p> <p>Pliers (lineman's pliers, needle-nose pliers)</p> <p>Wire cutters/strippers</p> <p>Utility knife</p> <p>Hammer</p> <p>Level</p> <p>Tape measure</p> <p>Conduit bender</p> <p>Fish tape</p> <p>Ammeters and ohmmeters</p> <p style="text-align: right;">Voltmeters</p>
Essential Physical tasks:	<p>Stripping wires, crimping connectors, and terminating cables using hand tools like strippers, crimpers, and screwdrivers.</p> <p>Operating power tools like drills and saws for installing brackets, making holes, and cutting materials. Proper tool handling and safety procedures are crucial</p> <p>Using ladders and lifts to access</p>

Activity	Frequency					Activity	Frequency				
	N	R	O	F	C		N	R	O	F	C
Lifting/Carring					X	Twisting/Turning					
Under 10 LBS					X	Reach over shoulder					X
11-20 LBS				X		Reach Over head					X
21-50 LBS			X			Reach outward					X
51-100 LBS			X			Climb			X		
Over 100 LBS						Crawl			X		
						Kneel				X	
Pushing/Pulling					X	Squat				X	
Under 10 LBS					X	Sit				X	
11-20 LBS				X		Walk-Normal Surfaces				X	
21-50 LBS			X			Walk-Uneven Surfaces				X	
51-100 LBS		X				Walk Slippery Surfaces			X		
Over 100 LBS						Stand					X
						Bend					X
Driving											
Under 50 Miles					X						
Over 50 Miles			X								
Other				X							
Keyboard/Ten Key				X							
Fingering (fine Dexterity)					X						
Handling (grasping, holding)					X						
Repetitive Motion - Hands					X						
Repetitive Motion - Feet											

Low voltage work often requires spending extended periods kneeling, crouching, or reaching overhead. Overall physical fitness helps to avoid fatigue and potential injuries.

Remember, safety is paramount. Apprentices will learn proper lifting techniques, fall protection measures, and safe handling of tools and equipment.