

## Electrician (Low Voltage) (C-6) - 822.361.018 Work Schedule "A"

The following schedule of work experience is intended as a guide. It need not be followed in any particular sequence, and it is understood that some adjustments may be necessary in the hours allotted for different work experience. In all cases, the apprentice is to receive sufficient experience to become fully competent and use good workmanship in all work processes which are a part of the trade. The apprentice will be fully instructed in safety and OSHA requirements. PLEASE NOTE: Connecticut Occupational Licensing Regulations require a minimum number of O.J.T. years (calendar time) as expressed below.

- A. Orientation and Safety (50 Hours)
  - 1. Firm's Layout and Equipment
  - 2. Housekeeping - First Aid - Electric Shock Resuscitation
  - 3. Customer Relations - Appearance
  
- B. Tools - Equipment - Instruments (100 Hours)
  - 1. Hand Tools
  - 2. Power Tools Including Power Pullers
  - 3. Basic Meters
  - 4. Advanced Test Equipment (Various Systems based on Media Used)
  
- C. Low Voltage Wiring (1000 Hours)
  - 1. Voice Grade Twisted Pair Wiring
  - 2. Installation of Alarm Systems
  - 3. Alarm Panels/Detection Devices
  - 4. Electronic Components (All Systems)
  - 5. Coaxial Wiring CATV/Data
  - 6. High Speed Twisted Pair Wiring
  - 7. DC Circuits
  - 8. Lightning Protection
  - 9. PBX Connectivity
  - 10. High Speed Voice/Data T1-T2
  - 11. Rigging and Wire Pulling
  
- D. Low Voltage Maintenance and Repair, Trouble Shooting (1,000 Hours)  
(Use "C" 1 through 11)
  
- E. Cable Installation and Splicing (350 Hours)
  - 1. Main Distribution Frame (M.D.F.)
  - 2. Intermediate Distribution Frame (I.D.F.)
  - 3. Patch Panel Installation

- F. Cable Maintenance and Repair, Trouble Shooting (150 Hours)  
(Use "E" 1 through 3)
- G. Basic Knowledge of Associated Trades: Mechanical-Plumbing-Heating-  
Millwright-Refrigeration-Carpentry (100 Hours)
- H. Raceway Installation (600 Hours)
  - 1. Pipe Installation
  - 2. Ladder Rack Installation
  - 3. Surface Raceway
  - 4. Cable Tray
  - 5. Floor Duct
  - 6. Cellular Raceway
- I. Fiber Optic Installation and Testing (600 Hours)
  - 1. Fiber Test Equipment
  - 2. Cabling Methods
  - 3. Routing
  - 4. Termination
  - 5. Identification
  - 6. Protection
- J. Telephone Company Demarcation (50 Hours)

**TOTAL - 4000 Hours**

- K. Related Instruction Hrs. - 360 Hours  
 Minimum O.J.T. Years - 2 Years  
Relevant Reference Materials:  
 National Electrical Code  
 National Fire Protection Association (72 series)  
 EIA/TIA Standards (568 569 606)  
 BICSI TDMM  
 Data Network Concepts  
 BOCA

**WAGE SCHEDULE**

0 - 1000	Hours	_____
1001 - 2000	Hours	_____
2001 - 3000	Hours	_____
3001 - 4000	Hours	_____
Journeyman Rate		_____