



Fire Alarm Systems Level I Exam Blueprint

1.1 Installation Tasks – 60 % of exam

1.1.1 Properly install fire alarm system components

- Recognize use of codes and standards
- Understand and use basic terminology
- Recognize onsite hierarchy of authority
- Properly use hand and power tools (observing safe operation, manufacturer's recommendations)
- Use proper installation techniques under supervision
- Describe operation of manual fire alarm boxes, automatic fire detection devices, audible signaling appliances, visible signaling appliances, annunciators
- Follow instructions
- Read and interpret symbols and drawings pertaining to mounting devices
- Recognize types of fire alarm systems (including electrical requirements initiating devices, control functions, alarm indicating appliance, power requirements, signaling services and automatic detectors in use)
- Use plans and specifications of jobs to calculate dimensions, type of materials, elevations, and locations
- Feed cables through access holes, roof spaces, and cavity walls to reach fixture outlets; then position and terminate cables, wires and strapping
- Mount and fasten control panels, sensors, and video cameras, and attach electrical and telephone wiring in order to connect components
- Assist in system acceptance testing

1.1.2 Practice correct wiring methods

- Properly use hand and power tools (observing safe operation, manufacturers recommendations)
- Use proper installation techniques under supervision
- Recognize types of outlet and junction boxes
- Recognize types of correct wiring, cable and conduit
- Assist in acceptance tests as required

1.1.3 Practice worksite safety

- Recognize unsafe conditions and alert supervisor
- Practice safe usage of hand and power tools
- Practice safe usage of worksite equipment
- Recognize common injuries or conditions (cuts, sprains, heat exhaustion, frost bite, fractured limbs, head injuries, heart attacks)
- Apply basic first aid as required using updated techniques and work site first aid equipment
- Practice safe ladder usage
- Practice use of eye and hearing protection
- If applicable, verify location of materials safety data sheets (MSDS) information specific to the facility where work will be performed
- Identify any hazardous locations specific to the facility where work will be performed





1.2 Maintenance Tasks – 40% of exam

1.2.1 Follow assigned maintenance standards and procedures

Assist in reacceptance and general tests as required
Read, understand and follow manufacturers published instructions for fire alarm system component operation and maintenance
Understand code requirements for maintaining equipment

