



**NORTH CAROLINA DEPARTMENT OF LABOR**

No. **17-7**

**OSH DIVISION**

Date: **03/2011**

**OSHNC INDUSTRIAL DATA REPORT**

Pages: **3**

Industry: **Construction**

Sub-Group: **Electrical Contractors**

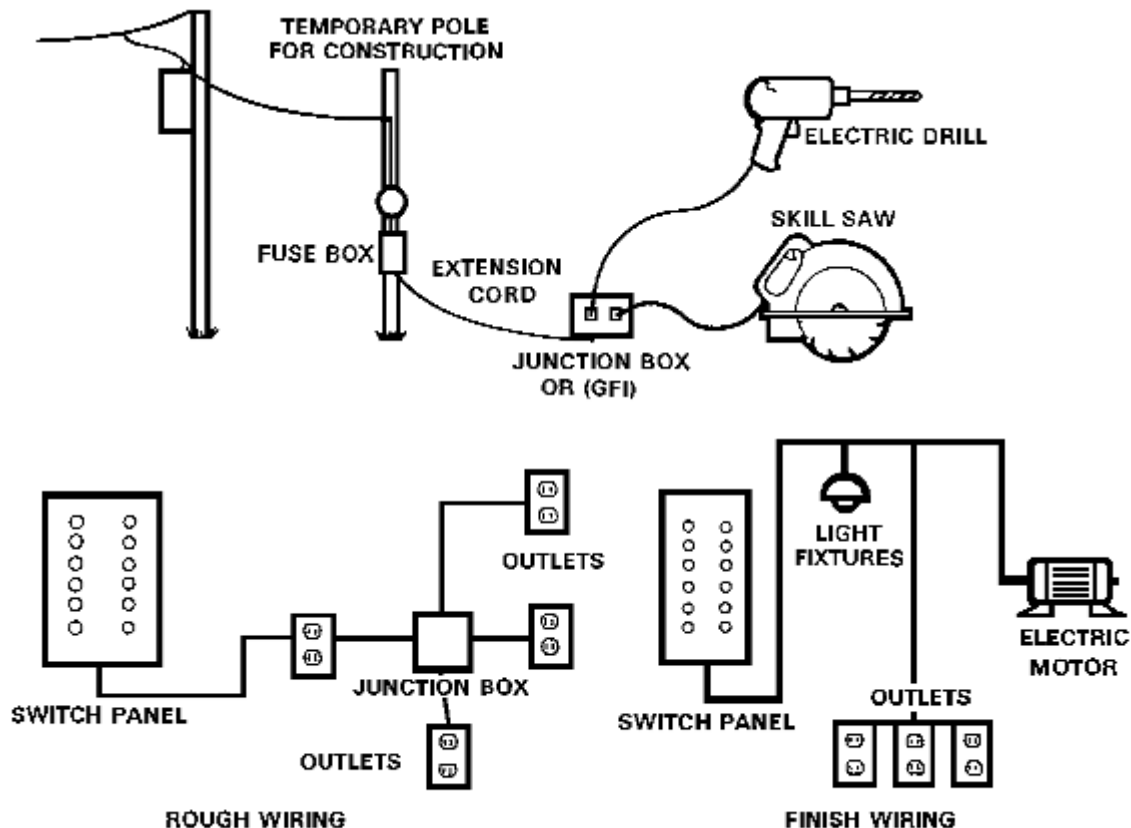
SIC: **1731**

NAICS: **238210**

**PROCESS DESCRIPTION:** Electrical work during construction, deals not only with the wiring of a project, but with electrical hazards throughout the construction site. The electrical installation industry includes the following jobs: burglar alarms, cable splicing, fire alarm, heating equipment, intercommunication equipment, sound equipment, telephone and electrical contractors.

Electrical installation work is usually carried out in two phases. Rough-in wiring includes installation of cable, hardware, and distribution and switching equipment. Finish work includes installation and testing of utilization equipment and devices.

### PROCESS FLOW:




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### Hazards Analysis

Major Hazards			Other Hazards		
Location	Item	Hazard	Location	Item	Hazard
Throughout	Electrical	Electrocution	Throughout	Scaffolds, floor and wall openings, stairways, and aerial lifts	Falls
Drilling	Dust and particles	Eye injury	Excavation	Ditch	Cave in
Throughout	Short circuit Tag out Hand tools and power tools Grounding and bonding Ladder	Fire Electrical shock Hand and eye injuries Electric shock and electrocution Falls			
Switch boxes	Overload	Electrical fire			

### Key OSHNC Standards

Reference	29 CFR 1926 — Construction Industry Standards
Subpart C and 13 NCAC 7F.0202	General Safety and Health Provisions - federal and state-specific requirements (for 1926.28)
Subpart D	Occupational Health and Environmental Controls
Subpart E and 13 NCAC 7F.0204	Personal Protective and Lifesaving Equipment - federal and state-specific requirements (for 1926.104)
Subpart F	Fire Protection and Prevention
Subpart H	Materials Handling, Storage, Use, and Disposal
Subpart K	Electrical
Subpart L	Scaffolds
Subpart M	Fall Protection
Subpart P	Excavations
Subpart X	Stairways and Ladders

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Subpart CC		Cranes and Derricks			
1926.556		Aerial Lifts			
<b>Inspection Analysis</b>					
<p>Inspection of the electrical work on a construction job should start at the temporary pole where the grounds are checked. Each extension cord should be checked for proper construction. The material trailer should be checked for hazards. All tools, ladders and scaffolds should be checked. Special attention should be given all electrical tools on all construction sites.</p>					
<p><b>Other Pertinent Comments:</b> Low voltage shock (120/240 volt) is the leading cause of electrocution on construction sites.</p>					