ELECTRICAL CONTRACTORS

Category: Casual and Artisan Contractors

SIC CODE: 1731 Electrical Work

1623 Water, Sewer, Pipeline and Communications and Power Line Construction

7629 Electrical Repair Shops, NEC

NAICS CODE: 238210 Electrical Contractors and Other Wiring Installation Contractors

237130 Power and Communication Line and Related Structures Construction

811211 Consumer Electronics Repair and Maintenance

811219 Other Electronic and Precision Equipment Repair and Maintenance

Suggested ISO General Liability Codes: 92478, 92451, 92446

Suggested Workers Compensation Codes: 5190, 3724, 7538

Description of operations: Electrical contractors install, service, maintain, and repair electrical wiring, conduits and fixtures both inside and outside of residential and commercial buildings. They may specialize in high-voltage or low-voltage work. Inside contractors install electrical wiring used for powering machinery, equipment, and lighting systems. Outside contractors install overhead power lines and underground electrical cables. Most states require electrical contractors to be licensed. The contractor may provide 24 hour emergency service.

Property exposures at the contractor's premises are generally limited to an office and storage for supplies, tools and vehicles. Electrical wiring is not combustible, but the insulating sheathing produces a black oily smoke when burnt and can be difficult to extinguish once started. Proper storage with good aisle space is important for preventing fires. Copper cable and wiring can be targeted by thieves. Appropriate security controls should be taken including alarms, lighting, and physical barriers prohibiting access after-hours.

Inland marine exposures include accounts receivable if the contractor offers credit to customers, contractors' equipment and tools, goods in transit, installation floater, and valuable papers and records for customers' and suppliers' information. There may be computers for tracking inventory, goods in transit, or installation exposures. Backup copies of all data should be stored off premises. Equipment consists mainly of hand tools and ladders unless there is line construction or machinery installation. Line construction may involve the use of cherry pickers and similar equipment for overhead lines, or trenchers and other digging equipment for laying underground cable. Contractors may lease, rent or borrow equipment, or may lease out, rent or loan their owned equipment to others, which poses additional risk as the operator may be unfamiliar with operation of the borrowed item. Tools and materials awaiting installation that are left at job sites are exposed to loss by theft, vandalism, damage from wind and weather, and damage by employees of other contractors. Goods in transit can be damaged by collision or overturn. Copper cable and wiring have high resale value and can be target theft items during transit or while located at job sites.

Crime exposure is primarily from employee dishonesty, including theft of customers' goods by the contractor's employee. Background checks, including criminal history, should be performed

on all employees providing services to customers or handling money. There must be a separation of duties between persons handling deposits and disbursements and reconciling bank statements.

Premises liability exposures at the contractor's office are generally limited due to lack of public access. Outdoor storage of materials may create vandalism and attractive nuisance hazards.

Off-site exposures are extensive. The area of operation should be restricted by barriers and proper signage to protect the public from slips and falls over tools, power cords, air conditioning systems, and scrap. During installation, electrical voltage must be turned off at the job site to reduce the risk of electrical burns or electrocution to others entering the area and turned back on after work stops. Disruption of electrical service to other homes or businesses in the vicinity should be minimalized. Electrical work can be invasive and require work throughout a home or business, resulting in a high potential for property damage. If there is work at heights, falling tools or supplies may cause bodily injury or property damage if dropped from ladders and scaffolding. During construction, other contractors typically depend on electricity for lighting and power to perform their work. In existing structures, the contractor must take care to control the electrical flow as new lines are installed alongside existing ones. Power fluctuations may damage sensitive equipment. Exterior electrical contractors must notify other utilities to prevent down time to their customers and must prevent surges to their own customers. Contractors laying underground cables should verify the absence of other utility lines prior to digging to avoid cutting into gas, water or communications cables. Underground laying of cables involves trenching which requires physical barriers to prevent others from falling into open areas. The use of subcontractors as well as any contractual liability exposures should be examined.

Personal injury exposures include assault and battery and invasion of privacy. Background checks should be conducted for any employee who will have regular contact with customers.

Completed operations liability exposures can be severe due to improper wiring or grounding. Both power failures and power surges resulting from the contractor's negligence may result in significant bodily injury or property damage. Work for medical facilities, prisons, large manufacturers, and alarm system installation can present the potential for catastrophic loss. Quality control, including work order documentation, and employee training, background, and experience is important. Warranties, guarantees, and maintenance agreements, in which the contractor promises to keep a system in operation, should be reviewed.

Environmental liability exposures can be high if the electrical contractor is responsible for the disposal of old capacitors and other heavy-duty electrical equipment that contain PCB's. Spillage and leaking of pollutants into the air, ground, or water can result in high cleanup costs and fines. Disposal procedures must adhere to all EPA and other regulatory standards. Proper written procedures and documentation of both the transportation and disposal process is important.

Automobile exposure is generally limited to transporting workers, equipment and electrical cables and supplies to and from job sites. All drivers must have valid licenses for the vehicles being driven. MVRs must be run on a regular basis. Random drug and alcohol testing should

be conducted. Vehicles must be well maintained with records kept in a central location. Vehicles may have special modifications or built-in equipment such as lifts and hoists. Large cables may be awkward and require special handling and tie-down procedures.

Workers compensation exposures vary based on the size and nature of the job. Electrical burns are common; electrocution can occur from the use of high-voltage lines. Injuries can occur from working with hand tools, slipping or falling, back injuries such as hernias, strains and sprains from lifting, pulling cable, or working from awkward positions, foreign objects in the eye, hearing impairment from noise, temperature extremes, auto accidents during transportation to and from job sites, and the carelessness of employees of other contractors. Minor injuries may be frequent even when the severity exposure is controlled. Failure to enforce basic safety procedures, such as power shutoff prior to commencing certain operations, may indicate a morale hazard. When work is done on ladders and scaffolds, employees can be injured from falling, being struck by falling objects, or adverse weather conditions. Laying underground cable may be near power and gas lines. Trench collapse can result in workers being suffocated or buried underground.

Coverages to consider but not limited to:

Business Personal Property, Accounts Receivable, Contractors' Equipment and Tools, Goods in Transit, Installation Floater, Valuable Papers and Records, Employee Dishonesty, General Liability, Employee Benefits Liability, Umbrella/Excess Liability, Automobile Liability and Physical Damage, Hired and Nonownership Auto, Workers Compensation, Building, Business Income with Extra Expense, Equipment Breakdown, Flood, Leasehold Interest, Real Property Legal Liability, Contractor Professional Liability, Pollution Liability, Computers, Riggers Liability, Cyber Liability, Employment Practices Liability, Stop Gap Liability, Commercial Crime