

e-Cost Labor Category Codes

Category	Cat.	Category Description
<p style="text-align: center;">Site Utilities - Excavation & Backfill</p>	<p style="text-align: center;">0010</p>	<p>Category includes:</p> <ul style="list-style-type: none"> • Layout, measure and mark area to be excavated • Contact Dig Safe and arrange for inspection • Excavating & backfill equipment (Rent or Lease) • Saw cutting of pavement if required • Remove pavement from site • Soil testing if required • Excavating • Truck loading of spoil • Hauling of spoil to a central location • Hauling of excess from site • Dewatering trench and/or pit • Import sand for pipe bedding • Install sand bedding & smooth • (See note #1) • (See note #2) • (See note #3) • Install marking tape • Backfill from pile at central location • Tamp at 6" or 12" lifts • Jacking if required • Repair or replace pavement as required • Top soil and seeding as required <p><u>Note #1:</u> Installation of conduit for FA, Tele/Data, and CATV etc. falls under <u>Low Voltage Systems - Underground Conduit, Category 0055.</u></p> <p><u>Note #2:</u> Installation of conduit for service primary and secondary feeders falls under <u>Feeder Conduit, Category 0110.</u></p> <p><u>Note #3:</u> Installation of ductbank concrete falls under <u>Cast in Place, Category 0020</u></p>

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Site Utilities - Cast in Place, Slabs, Pads, Ductbank & Pole Bases	0020	<p>Category includes:</p> <ul style="list-style-type: none"> • Measuring and marking • Calculate cubic yards required • Schedule delivery of concrete • Trim side and bottom of trench • Rent or fabricate forms • Install concrete forms • Install and tie rebar as required • Install horizontal ground cable • Set equipment bolts or channel inserts • Pour or pump concrete • Screed, trowel or broom finish slabs, pads and ductbanks • Remove concrete forms • Dispose or return concrete forms <p><u>Note #1:</u> Installation of conduit for FA, Tele/Data, and CATV etc. falls under <u>Low Voltage Systems, Underground Conduit, Category 0055.</u></p> <p><u>Note #2:</u> Installation of conduit for service primary and secondary feeders falls under <u>Feeder Conduit, Category 0110.</u></p> <p>▮ <u>Reminder:</u> Excavation, backfill and dewatering fall under <u>Category 0010.</u></p>
Site Utilities - High Voltage Transformers & Disconnects	0040	<p>Equipment includes:</p> <ul style="list-style-type: none"> • Outdoor substation transformers • Overhead pole mount transformers • Voltage regulators • Power Capacitors • Recluses, Breakers, Switches & Fault Interrupters • Air & load break Switches • Fault Indicator • Sectionalizing Cabinet • High voltage kits and cable terminations
Site Utilities - High Voltage, Poles & Guying	0045	<p>Installation includes:</p> <ul style="list-style-type: none"> • Layout and Marking • Contact Dig Safe and arrange for inspection • Rent auger pole line truck • Haul pole from storage or purchase location • Dress pole including cross arms, hardware etc. • Dig hole for pole • Set pole in place • Dig anchor hole • Support pole, guying hardware etc. • Add guy wire guard • Bond guy wire • Backfill and tamp in 6" or 12" lifts

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Site Utilities – High Voltage, Aerial Wire/Cable	0050	<p>Installation includes:</p> <ul style="list-style-type: none"> • Layout and measure cable run • Order precut cable or cable reel • Haul cable or cable reel from storage or purchase location • Rent cable pulling truck or equipment • Install conductor attachments, insulators, shank pins etc. • Primary clevis, bells and D/E clamp • Neutral suspension or D/E Clamp • Connect pulley and pull rope • Pull overhead wire/cable/guy • Remove any slack • Calculate cable sag • Terminate cable or continue to next span
Site Utilities - Low Voltage Systems, Underground Conduit, CATV, Tele/Data etc.	0055	<p>Low Voltage Systems in this category are defined as systems under 120V including Fire Alarm, Telephone, Data, Security, CATV, fiber optic etc. Installation of underground conduit includes:</p> <ul style="list-style-type: none"> • Measuring and marking conduit runs from utility poles to interior backboards or control panels • Hauling conduit and fittings from storage or purchase location to trench • Install pole riser conduit for each active system, conduit size & type per drawings • Terminate spare conduit with an elbow and cap at utility pole and backboard location • Ground pole and riser conduit • Install base conduit spacers • Install first layer of conduits in trench • Install intermediate spacers if required • Install second level of conduits if required • Install couplings, adapters, bell ends, etc. • Paint couplings if required • Core drill foundation • Installing sealing fittings at foundation • Cap spare conduits • Install pull cord in each conduit <p>⌞ <u>Reminder:</u> Excavation, backfill and dewatering fall under <u>Category 0010.</u></p> <p>⌞ <u>Reminder:</u> Ductbank falls under <u>Category 0020</u></p>

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Site Utilities - Low Voltage Systems, Wire & Cable	0060	<p>Low Voltage Systems in this category are defined as systems under 120V including Fire Alarm, Telephone, Data, Security, CATV, fiber optic etc. Installation of cable includes:</p> <ul style="list-style-type: none"> • Moving material to a central location • Setting up wire racks • Setting up pulling equipment • Measuring & marking • Pulling cable from utility pole or manhole to each system backboard or control panel <p><u>Note:</u> Cable/Wire terminations are included in the <u>Equipment and Device</u> category of each system example: <u>Tele/Data/Video – Equipment & Devices Category 1750.</u></p>
Site Utilities, Handholes & Manholes	0070	<p>It is unusual for the electrical contractor in the Northeast to be responsible for excavating and backfill. However, in most other regions of the country the electrical contractor is responsible for this scope of work. This description is written for the Northeast but attention to the notes at the bottom of this section makes it adaptable to an expanded scope of work.</p> <p>Installation includes:</p> <ul style="list-style-type: none"> • Measuring and marking manhole & handhole locations • Scheduling and co-coordinating delivery of precast manholes and handholes • Coordinate excavation of manhole or handhole pit • Trim side and bottom of trench • Level bottom of trench • Assisting and directing the installation of manholes by vendor • Installing and leveling of manhole collar • Installing manhole cover • Installing ladder or step rings • Pulling irons • Cable racks and vertical supports • Cable support insulators • Coring conduit entry holes • Ground rod and bare copper cable • Co-ordinate backfill and tamping <p>⌋ <u>Reminder:</u> Excavation, backfill and dewatering fall under <u>Category 0010</u></p> <p>⌋ <u>Reminder:</u> This category includes manholes and handholes for both power and communication installations.</p> <p><u>Note #1:</u> Installation of poured in place concrete falls under <u>Cast in Place, Category 0020</u></p>

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Site Utilities, Primary Conduit & Fittings	0075	<p>Primary conduits are the underground conduits either high or low voltage originating from the utility companies point of connection to the on site step down transformer. The starting point may be a utility pole, manhole, handhole or vault. The ending point for this category is the primary side of the step down transformer.</p> <ul style="list-style-type: none"> • Measuring and marking conduit runs from utility poles to step down transformer pad • Hauling conduit and fittings from storage or purchase location to trench • Install pole riser conduit for each active system, conduit size & type per drawings • Terminate spare conduit with an elbow and cap at utility pole and step down transformer pad • Ground pole and riser conduit • Install base conduit spacers • Install first layer of conduits in trench • Install intermediate spacers if required • Install second level of conduits if required • Install couplings, adapters, bell ends, etc. • Install galvanized elbows at pad and utility pole • Install locknuts if required and grounding bushings • Paint couplings if required • Cap spare conduits • Install pull cord in each conduit <p>⌞ <u>Reminder:</u> Excavation, backfill and dewatering fall under <u>Category 0010</u>.</p> <p>⌞ <u>Reminder:</u> Ductbank falls under <u>Category 0020</u></p> <p>⌞ <u>Reminder:</u> Primary wire is covered in <u>Category 0076</u></p>

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Site Utilities, Primary Wire/Cable	0076	<p>Primary Wire/Cable in this category is defined as either high or low voltage wire or cable feeding the primary of a step down transformer. The wire or cable may be specified as installed in conduit or direct burial.</p> <p>It is unusual for the electrical contractor to supply and install the primary wire or cable in the northeast region; it is for the most part installed by the local utility company with the most common exception being government or military bases or reservations.</p> <p>Installation includes:</p> <ul style="list-style-type: none"> • Moving material to a central location • Setting up wire racks • Setting up pulling equipment • Measuring & marking • Pulling cable through manholes, handholes or vaults • Pulling cable from utility pole or manhole to the primary side of a step down transformer. <p><u>Note:</u> Cable/Wire terminations are included in <u>Category 0077</u></p>
Site Utilities, Primary Transformer Terminations	0077	<p>It is unusual for the electrical contractor to terminate primary cables in the northeast region; it is for the most part a function of the local utility company with the most common exception being government or military bases or reservations.</p> <p>Installation includes:</p> <ul style="list-style-type: none"> • Perform Meg ohm test on installed cable • Cut strip and shape wire installed under <u>Category 0076</u> • Clean high voltage conductor w/solvent • Install high voltage terminator kit or splice kit • Install phase identification • Install high voltage terminator into transformer socket • Call utility company to energize

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Site Utilities, Secondary Conduit & Fittings	0080	<p>Secondary conduits are above ground and/or underground conduits originating from the secondary side of the utility companies step down transformer. The starting point may be a site pad mount, utility pole, manhole, handhole or vault. The ending point for this category is the main service disconnect.</p> <ul style="list-style-type: none"> • Measuring and marking conduit runs from utility poles or step down transformer pad to the main service disconnect • Hauling conduit and fittings from storage or purchase location to trench • Install pole riser conduit (if required) for each active system, conduit size & type per drawings • Install base conduit spacers • Install first layer of conduits in trench • Install intermediate spacers if required • Install second level of conduits if required • Install couplings, adapters, bell ends, etc. • Install galvanized elbows and bushings at pad and utility pole • Install locknuts and grounding bushings • Paint couplings if required • Cap spare conduits • Install pull cord in each conduit <p>▮ <u>Reminder:</u> Excavation, backfill and dewatering fall under <u>Category 0010</u>.</p> <p>▮ <u>Reminder:</u> Ductbank falls under <u>Category 0020</u></p>
Site Utilities, Secondary Wire/Cable	0085	<p>Primary Wire/Cable in this category is defined as cable originating from the secondary side a step down transformer and ending at the main service disconnect. The wire or cable may be specified as installed in conduit, aerial or direct burial.</p> <p>Installation includes:</p> <ul style="list-style-type: none"> • Moving material to a central location • Setting up wire racks • Setting up pulling equipment • Measuring & marking • Pulling cable through manholes, handholes or vaults • Pulling cable from the secondary side of step down transformer to the service disconnect <p><u>Note:</u> Cable/Wire terminations are included in <u>Category 0090</u></p>

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Site Utilities, Secondary Transformer Terminations	0090	<p>Installation includes:</p> <ul style="list-style-type: none"> • Perform Meg ohm test on installed cable • Cut, strip and shape wire installed under <u>Category 0085</u> • Install lug kit or splice kit • Install phase identification • Install and tighten cable under lugs • Call utility company to energize <p>└ <u>Reminder:</u> Wire or cable pulling is under <u>Category 0085</u></p>
Site Lightning, Prefabricated Pole Bases & Grounding	0091	<p>In the majority of installations the general contractor will supply and install pole bases with the electrical contractor supplying the galvanized elbows and pole bolts to the fabricator.</p> <p>Installation includes:</p> <ul style="list-style-type: none"> • Supply galvanized elbows to GC or concrete fabricator • Supply pole bolts to GC or concrete fabricator • Measure and mark pole base locations • Excavate pole base by GC or electrical under <u>Category 0010</u> • Trim and level bottom of hole • Install or assist GC to set prefabricated pole base • Drive ground rod at each pole base • Install grounding bushing on galvanized elbows • Install ground wire from ground rod to grounding bushing on galvanized elbow • Install galvanized coupling at bottom of elbow <p>└ <u>Reminder:</u> Excavation, backfill and dewatering fall under <u>Category 0010.</u></p>

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Site Lighting, Conduit & Fittings	0092	<p>This Category covers only the underground portion of a lighting conduit run. If the conduit is run through the building in rigid steel conduit then converts to an underground run, this category would begin at the changeover point. If the run goes directly underground from the source panelboard then the entire run would fall under this Category including the riser conduit from the slab to the panelboard.</p> <p>Installation includes:</p> <ul style="list-style-type: none"> • Measuring and marking conduit runs • Hauling conduit and fittings from storage or purchase location to trench • Install conduit, size & type per drawings • Install couplings, adapters, etc. • Install galvanized elbows where conduit goes from under to above ground • Install locknuts and grounding bushings • Paint couplings if required • Cap spare conduits • Install pull cord in each conduit <p>⌞ <u>Reminder:</u> Excavation, backfill and dewatering fall under <u>Category 0010.</u></p> <p>⌞ <u>Reminder:</u> Pole bases fall under <u>Category 0010.</u></p> <p>⌞ <u>Reminder:</u> Above ground conduit runs fall under <u>Category 0710</u></p>
Site Lighting, Wire & Cable	0093	<p>Wire for this Category is for the underground conduit only. Wire that is run through above ground conduits will be covered under <u>Category 0720.</u></p> <p>Installation Includes:</p> <ul style="list-style-type: none"> • Moving material to a central location • Setting up wire racks • Measuring & marking • Pulling branch wire from panelboard site lights
Site Lighting, Poles & Fixtures	0094	<p>Installation includes:</p> <p>Moving poles to a central location Mobilize and position bucket truck Assembling pole arm to pole Install fixture head arm Wire fixtures Rig pole to bucket truck Set Pole on base Bolt pole to base Level & shim Install base covers</p>

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Category	Cat.	Category Description
Service & Distribution - Switchgear & Panelboards	0100	<p>Installation of:</p> <ul style="list-style-type: none"> • Switchboards • Panelboards • Load centers • MCC's • Disconnects • Transformers • Enclosed circuit breakers • Switchboard breakers • Panelboard breakers • Load center breakers • Safety switches • Starters & combination starters • TVSS transformers • UPS equipment • Lighting contactor • Relay panelboards • Cable terminations at all breakers & lugs • Equipment layout and marking • Directory cards and circuit identification • Equipment testing • Motor phase testing <p><u>Note #1:</u> MCC's, safety switches, starters & combination starters will be included in this category only if they appear on the <u>One Line Power Drawing</u>. If they do not appear on the <u>OneLine</u> include them in <u>Mechanical Category 0200</u>.</p> <p><u>Note #2:</u> Lighting contactors and relay panelboards will be included in this category only if they appear on the <u>One Line Power Drawing</u>. If they do not appear on the <u>One Line Power Drawing</u> include them in <u>Lighting Category 0700</u>.</p> <p><u>Note #3:</u> Load side connections to all breakers fall under this category, since the estimated man-hours for breakers include installation and termination. This holds true for most pieces of electrical equipment.</p>

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Category	Cat.	Category Description
Service & Distribution - Feeder Conduit	0110	<p>Feeder conduit includes:</p> <ul style="list-style-type: none"> • Primary conduit to pad mount transformer • Secondary conduit from transformer to switchboard • Conduit from switchboard to distribution panelboard • Conduit from distribution panelboard to lighting panelboard • Conduit from distribution panelboard to branch power panelboard • Conduit from panelboard to primary of dry transformer • Conduit from dry transformer secondary • Conduit to mechanical equipment supplied by others • Conduit to UPS System • Conduit to lighting contactor • Conduit to relay panelboard • Conduit to MCC primary • Conduit to safety switch line & load side • Conduit to starter line & load side • Conduit to combination starter line & load • All pull boxes and troughs for above equip. • All measuring, marking and layout of feeder conduits • All hangers, supports, fittings, fabrications, field bends etc. required for a complete point to point conduit installation <p><u>Note #1:</u> Conduit to MCC's, safety switches, starters & combination starters will be included in this category only if they appear on the <u>One Line Power Drawing</u>. If they do not appear on the <u>OneLine</u> include them in <u>Mechanical Category 0210</u>.</p> <p><u>Note #2:</u> Conduit to lighting contactors and relay panelboards will be included in this category only if they appear on the <u>One Line Power Drawing</u>. If they do not appear on the <u>One Line Power Drawing</u> include them in <u>Lighting Category 0710</u>.</p>

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Category	Cat.	Category Description
<p>Service & Distribution - Cable and Wire</p>	<p>0120</p>	<p>Cable and wire includes:</p> <ul style="list-style-type: none"> • Primary cable/wire to pad mount transformer • Secondary cable/wire from transformer to switchboard • Cable/Wire from switchboard to distribution panelboard • Cable/Wire from distribution panelboard to lighting panelboard • Cable/Wire from distribution panelboard to branch power panelboard • Cable/Wire from panelboard to primary of dry transformer • Cable/Wire from dry transformer secondary • Cable/Wire to relay panelboard • Cable/Wire to lighting contactor • Conduit to UPS system • Cable/Wire to MCC line side • Cable/Wire to safety switch line and load side • Cable/Wire to starter line and load side • Cable/Wire to combination starter line and load side • Ariel Cable to distribution equipment including all insulators and supports • Cable/Wire splices in pull boxes and troughs in distribution conduit runs • Pad mount transformer grounding system including rods, lugs, cadwelds and wire terminations <p><u>Note #1:</u> Cable/Wire to MCC's, safety switches, starters & combination starters will be included in this category only if they appear on the <u>One Line Power Drawing</u>. If they do not appear on the <u>One Line Power Drawing</u> include them in <u>Mechanical Category 0220</u>.</p> <p><u>Note #2:</u> Cable/Wire terminations are included in <u>Service & Distribution - Switchgear & Panelboard Category 0100</u>. For example; the installation of circuit breakers not only includes the time to install the circuit breaker in a panelboard, but also the time to terminate the load side wire. The only time you would include cable terminations in this section is when you terminate to equipment furnished by others.</p>

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Category	Cat.	Category Description
Mechanical Systems - Motor Starters and Control	0200	<p>Includes installing and terminating cable/wire in:</p> <ul style="list-style-type: none"> • Manual starters • Magnetic starters • Combination starters • Heating contactors • MCC structures and starters • Disconnect switches • Variable frequency drives (VFD) • Motor driven kitchen equipment • Boiler controls, limit switches, level switches etc. • Pump control, flow switch, level switch, stop-start etc. • Mechanical equipment supplied by others • Motor switches • Thermal switches • Equipment handling • Equipment layout, measuring, marking etc. <p><u>Note:</u> MCC's, Safety Switches, Starters & Combination Starters will be included in this category only if they are not shown on the <u>One Line Power Drawing</u>. If they appear on the <u>One Line Power Drawing</u> include them in <u>Service and Distribution Category 0100</u>.</p>
Mechanical Systems - Conduit and Armored Cable	0210	<p>Conduit and/or armored cable to:</p> <ul style="list-style-type: none"> • Manual starters • Magnetic starters • Combination starters • Heating contactors • MCC structures and starters • Disconnect switches • Variable frequency drives (VFD) • Motor driven kitchen equipment • Boiler controls, limit switches, level switches etc. • Pump control, flow switch, level switch, stop-start etc. • Mechanical equipment supplied by others • Motor switches • Thermal switches <p><u>Note:</u> Conduit and /or armored cable to MCC's, safety switches, starters & combination starters will be included in this category only if they are not shown on the <u>One Line Power Drawing</u>. If they appear on the <u>One Line Power Drawing</u> include them in <u>Service and Distribution Category 0110</u>.</p>

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Mechanical Systems - Wire	0220	<p>Wire installation includes:</p> <ul style="list-style-type: none"> • Moving material to a central location • Setting up wire racks • Measuring & marking • Pulling wire to and from manual starters • Pulling wire to and from magnetic starters • Pulling wire to and from combination starters • Pulling wire to and from heating contactors • Pulling wire to and from MCC structures and starters • Pulling wire to and from disconnect switches • Pulling wire to and from variable frequency drives • Pulling wire to and from motor driven kitchen equipment • Pulling wire to and from boiler controls, limit switches • Pulling wire to and from pump controls, flow switches, level switches, stop-start stations etc. • Pulling wire to and terminating wire at mechanical equipment • Pulling wire to and from thermal switches <p><u>Note:</u> Wire to MCC's, safety switches, starters & combination starters will be included in this category only if they are not shown on the <u>One Line Power Drawing</u>. If they appear on the <u>One Line Power Drawing</u> include them in <u>Service and Distribution Category 0120</u>.</p> <p>⌞ <u>Reminder:</u> Final mechanical circuit terminations to branch breakers falls under <u>Category 0100</u></p>
Lighting - Fixtures	0700	<p>Installation of lighting fixtures includes:</p> <ul style="list-style-type: none"> • Lighting layout • Measuring and marking • Setup of staging ladders or lifts • Transporting fixtures to area of installation • Unpacking fixtures • Installing fixtures • Installing fixture support, jack chain, pendants, aircraft cables • Connecting fixtures to junction boxes • Fixture power connection splice • Installing lamps • Removing packing materials from area • Installation of stage dimming equipment • Installation of lighting contactors • Installation of relay panelboards <p><u>Note:</u> Lighting Contactors and/or relay panelboards will be included in this category only if they are not shown on the <u>One Line Power Drawing</u>. If they appear on the <u>One Line Power Drawing</u> include them in <u>Service and Distribution Category 0100</u>.</p>

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Lighting - Conduit & Armored Cable	0710	<p>Conduit and/or armored cable installation includes:</p> <ul style="list-style-type: none"> • Moving material to a central location • Layout of lighting conduit runs • Measuring and making • Conduit hangers and supports including field fabrication • Conduit fittings including couplings, bodies, locknuts and bushings • Fixture whips • Factory and/or field bends • Junction and pull boxes • Switch boxes • Time clocks, and branch conduit • Occupancy sensors • Sweeps for poles bases • Grounding of pole bases including cadwelds, wire and rods • Site lighting conduit runs
Lighting – Wire and Cable	0720	<p>Wire installation includes:</p> <ul style="list-style-type: none"> • Moving material to a central location • Setting up wire racks • Measuring & marking • Pulling branch wire from panelboard to junction boxes • Pulling branch wire from junction boxes to switches • Pulling low voltage cable from switches to relay panelboards • Pulling branch wire to occupancy sensors • Pulling branch wire to site lighting <p>└ Reminder: Fixture power connection falls under <u>Category 0700</u></p> <p>└ Reminder: Lighting circuit terminations to branch breakers falls under <u>Category 0100</u></p>
Lighting - Switches, Control Devices & Terminations	0730	<p>Installation includes:</p> <ul style="list-style-type: none"> • Installing switches • Installing plates • Terminating wire at time clocks • Terminating branch wire at control relays • Terminating branch wire at dimming panel • Installing dimmer switches • Installing occupancy sensors • Installing photo cells • Testing switching, dimmers, occupancy sensors etc. <p>└ Reminder: Final lighting circuit terminations to branch breakers falls under <u>Category 0100</u></p>

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Devices – Receptacles & Special Outlets	0800	<p>Receptacles and special outlets include:</p> <ul style="list-style-type: none"> • Standard receptacles • Hospital grade receptacles • Isolated ground receptacles • Receptacles in wiremold • Explosion-Proof receptacles • Twist-Lock receptacles • Receptacles for kitchen equipment • Oven, range, dryer receptacles • Receptacles for Tele/Data/Video equipment • Receptacles for floor boxes • Receptacles for local sound systems 120V • Receptacles and/or connections to clock control panel 120V • Receptacles and/or connections to FACP 120V • Receptacles and/or connections to Security System 120V • Receptacles and/or connections to CCTV cameras 120V • Receptacles and/or connections to power poles • Receptacles and/or connections to modular furniture systems • Receptacle plates <p>└ Reminder: Final device circuit terminations to branch breakers falls under <u>Category 0100.</u></p>
Devices – Conduit, Armored Cable & Wiremold	0810	<p>Conduit and/or armored cable installation includes:</p> <ul style="list-style-type: none"> • Moving material to a central location • Layout of conduit runs • Measuring and marking • Core drilling for device circuits • Setup of staging, ladders or lifts • Conduit vertical and horizontal runs • Conduit hangers and supports including field fabrications • Conduit fittings including couplings, bodies, locknuts and bushings • Factory and/or field bends • Junction and pull boxes • Device boxes, rings, extensions etc. • Wiremold base, cover, fittings and device brackets • Through-floor, poke through & floor boxes • Underfloor raceway & fittings • Wireway & fittings

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Devices - Wire	0820	<p>Wire installation includes:</p> <ul style="list-style-type: none"> • Moving material to a central location • Setting up wire racks • Measuring & marking • Pulling branch wire from panelboard to junction boxes • Pulling branch wire from junction boxes to receptacles • Pulling branch wire through wireway • Pulling branch wire through underfloor raceway • Pulling branch wire through wiremold • All splices between the branch breaker and the device <p>└ <u>Reminder:</u> Final circuit terminations to branch breakers falls under <u>Category 0100.</u></p> <p>└ <u>Reminder:</u> Terminating wire to receptacle falls under <u>Category 0800.</u></p>
Temporary – Service Equipment	0900	<p>Temporary service equipment includes:</p> <ul style="list-style-type: none"> • Trenching and backfill • Fabrication of wood pole • Service lateral • Vertical service entrance conduit & wire • Meter socket • Switchboards, panelboards and load centers • Breakers and circuit terminations • Removal or relocation of service equipment <p><u>Note:</u> Special power requirements such as welders, elevators, and trailers are not a part of this category unless contained in the specification.</p>

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Temporary – Conduit & Condulets	0910	Temporary conduit & condulets includes: <ul style="list-style-type: none"> • Moving material to a central location • Layout of conduit runs • Measuring and marking • Setup of staging, ladders or lifts • Conduit vertical and horizontal runs • Conduit hangers and supports including field fabrications • Conduit fittings including couplings, bodies, locknuts and bushings • Factory and/or field bends • Junction and pull boxes • Device boxes, rings, extensions etc. • Primary conduit to pad mount transformer • Secondary conduit from transformer to switchboard • Conduit from switchboard to distribution panelboard • Conduit from distribution panelboard to lighting panelboard • Conduit from distribution panelboard to branch power panelboard
Temporary – Wire & Cable	0920	Wire and cable include: <ul style="list-style-type: none"> • Moving material to a central location • Setting up wire racks • Measuring & marking • Installing wire in all conduits, both distribution and branch runs • Running lighting and device circuits in MC, romex, UF, STO, SE-SER etc. • Installing light sockets and plastic guards
Temporary – Devices & Prefabricated Lighting Strings	0930	Devices and prefabricated lighting strings include: <ul style="list-style-type: none"> • Layout of conduit runs • Measuring and marking • Setup of staging, ladders or lifts • Installing receptacles, special outlets, switches, time clocks etc • Installing prefabricated lighting strings • Installing lamps and replace as required

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Fire Alarm – Equipment, Device &d Testing	1000	<p>Equipment, devices and testing include:</p> <ul style="list-style-type: none"> • Installation or relocation of the master box • Cable/wire connection to and from the master box • Installation of the control panel (FACP) • Cable/wire termination at the control panel (FACP) • Installation of annunciator (ANN) • Cable/wire termination at (ANN) • Installation of initiating devices i.e. smoke detectors, pull stations, duct smoke detectors, heat detectors etc. • Cable/wire termination at initiating devices • Installation of signal devices i.e. horn strobes, beacons, strobes, fire fighters phone etc. • Cable/wire termination at signal devices • Installation of magnetic door holders, monitor modules, control modules etc. • Cable/wire termination at door holders etc. • Installation of fire alarm terminal cabinets (FATC) • Cable/wire termination at fire alarm terminal cabinets (FATC) • System testing • Independent UL test • Fire Department test
Fire Alarm – Conduit & Armored Cable	1010	<p>Conduit installation includes:</p> <ul style="list-style-type: none"> • Moving material to a central location • Layout of conduit runs • Measuring and marking • Core drilling for device circuits • Setup of staging, ladders or lifts • Conduit vertical and horizontal runs • Conduit hangers and supports including field fabrications • Conduit fittings including couplings, bodies, locknuts and bushings • Factory and/or field bends • Junction and pull boxes • Device boxes, rings, extensions etc. • Armored cable, connectors and supports • Device backboxes

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Category	Cat.	Category Description
Fire Alarm - Wire & Cable	1020	Wire and cable installation includes <ul style="list-style-type: none"> • Cable/wire to and from the master box • Cable/wire to and from the control panel (FACP) • Cable/wire to and from initiating devices • Cable/wire to and from signal devices • Cable/wire to and from door holders etc. • Cable/wire to and from fire alarm terminal cabinets (FATC) • Cable/wire to and from annunciator (ANN)
Clock System - Equipment and Devices	1100	Equipment and devices include: <ul style="list-style-type: none"> • Classroom clocks • High impact clocks • Master clock controllers • Corridor bells • Exterior Bells
Clock System - Conduit & Armored Cable	1110	Conduit and armored cable includes: <ul style="list-style-type: none"> • Moving material to a central location • Layout of conduit runs • Measuring and marking • Core drilling for device circuits • Setup of staging, ladders or lifts • Conduit vertical and horizontal runs • Conduit hangers and supports including field fabrications • Conduit fittings including couplings, bodies, locknuts and bushings • Factory and/or field bends • Junction and pull boxes • Device boxes, rings, extensions etc. • Armored cable, connectors and supports • Device backboxes
Clock System - Wire & Cable	1120	Wire and cable installation includes <ul style="list-style-type: none"> • Cable/wire to and from master control • Cable/wire to and from classroom clocks • Cable/wire to and from corridor clocks • Cable/wire to and from corridor bells • Cable/wire to and from exterior bells <p>Note: Branch power 110V circuits, receptacles, connections, conduit and wire fall under the <u><i>Device Categories 0800, 0810 & 0820.</i></u></p>

e-Cost Labor Category Codes

Category	Cat.	Category Description
Intercommunication System, Local Sound & Paging Equipment	1200	<p>Sound and paging installation includes:</p> <ul style="list-style-type: none"> • Paging system controller & connections • Corridor speakers & connections • Classroom speakers & connections • Gym speakers & terminations • Exterior speakers & terminations • Talkback speakers & terminations • Classroom handsets & terminations • Local gym sound rack & components • Local cafeteria sound rack & components • Local auditorium sound rack & components • Local sound systems remote microphone jacks • PBX system including cross connect blocks • AM/FM antenna and accessories • Assisted listening system and accessories <p><u>Note #1:</u> In many instances the PBX equipment, installation and terminations are supplied by Tele/Data/Video Category 1750, check with project manager for correct category.</p> <p><u>Note #2:</u> Branch power 110V circuits, receptacles, connections, conduit and wire fall under the <u>Device Categories 0800, 0810 & 0820.</u></p>

e-Cost Labor Category Codes

Category	Cat.	Category Description
Intercommunication System – Local Sound & Paging, Conduit & Condulets	1210	Conduit and condulets includes: <ul style="list-style-type: none"> • Moving material to a central location • Layout of conduit runs • Measuring and marking • Core drilling for device circuits • Setup of staging, ladders or lifts • Conduit vertical and horizontal runs • Conduit hangers and supports including field fabrications • Conduit fittings including couplings, bodies, locknuts and bushings • Factory and/or field bends • Junction and pull boxes • Device boxes, rings, extensions etc. • Device backboxes • Combination backboxes
Intercommunication System – Local Sound & Paging, Wire & Cable	1220	Sound and paging cabling includes: <ul style="list-style-type: none"> • Cable/wire to and from paging system controller • Cable/wire Corridor speakers & connections • Cable/wire Classroom speakers & connections • Cable/wire Gym speakers & terminations • Cable/wire Exterior speakers & terminations • Cable/wire Talkback speakers & terminations • Cable/wire Classroom handsets & terminations • Cable/wire Local gym sound rack & components • Cable/wire Local cafeteria sound rack & components • Cable/wire Local auditorium sound rack & components • Local sound systems remote microphone jacks • PBX system including cross connect blocks <p>Note: Branch power 110V circuits, receptacles, connections, conduit and wire fall under the <u><i>Device Categories 0800, 0810 & 0820.</i></u></p>

e-Cost Labor Category Codes

Category	Cat.	Category Description
Generator/Transfer Switches - Package	1300	<p>Generator installation includes:</p> <ul style="list-style-type: none"> • Generator • Automatic transfer switch • Manual transfer switch • Annunciator panel • Cable termination at transfer switch • Cable termination at generator <p>Note: Conduit for generator and transfer switches fall under <u>Feeder Conduit Category 0110</u>. Wire and cable to the generator and transfer switch is contained in <u>Cable and Wire Category 0120</u>.</p>
Electric Heating - Mats & Heat Tracing	1400	<p>Installation includes:</p> <ul style="list-style-type: none"> • Heat trace cable • Heat trace clips and tape • Heat trace protector strip • Heat trace adapter (Junction box) • Heat trace thermostat • Heat trace cable terminations <p>Note: Conduit to the thermostat and adapter junction box should be reported in <u>Mechanical Conduit & Armored Cable 0210</u>. Wire to the thermostat and adaptor junction box should be reported in <u>Mechanical – Wire 0220</u>.</p>
Lightning Protection	1500	<p>Installation includes:</p> <ul style="list-style-type: none"> • Arrestors • Air terminals • Ground rods • Wire • Ground cable fittings • Cadwelds and cable terminations • Vertical PVC risers • Core drilling floors & roof deck • Building ground grid

e-Cost Labor Category Codes

Category	Cat.	Category Description
Security, Access Control, CCTV - Equipment, Devices and Testing	1600	Installing equipment and devices including: <ul style="list-style-type: none"> • Security control panel (SCP) • Security initiating devices • Security signaling devices • Access control controller • Access control management computer • Access control card readers • Access control key pads • CCTV Cameras and monitors • CCTV switchers • CCTV mounting brackets • CCTV jacks and plates • CCTV video recorder
Security, Access Control, CCTV – Conduit and Condulets and/or Provisions	1630	Conduit and condulets includes: <ul style="list-style-type: none"> • Moving material to a central location • Layout of conduit runs • Measuring and marking • Core drilling for device circuits • Setup of staging, ladders or lifts • Conduit vertical and horizontal runs • Conduit hangers and supports including field fabrications • Conduit fittings including couplings, bodies, locknuts and bushings • Factory and/or field bends • Junction and pull boxes • Device boxes, rings, extensions etc. • Device backboxes • Combination backboxes

e-Cost Labor Category Codes

Category	Cat.	Category Description
Security, Access Control, CCTV - Wire and Cable	1640	<p>Installation of cable and wire include:</p> <ul style="list-style-type: none"> • Cable/wire/terminations to and from security control panel (SCP) • Cable/wire/terminations to and from security initiating devices • Cable/wire/terminations to and from security signaling devices • Cable/wire/terminations to and from door hardware • Cable/wire/terminations to and from card readers and keypads • Cable/wire/terminations to video cameras • Cable/wire/terminations to video control equipment • Cable/wire/terminations to access control equipment • Cable/wire/terminations to video jacks <p>Note: Branch power 110V circuits, receptacles, connections, conduit and wire fall under the <u>Device Categories 0800, 0810 & 0820.</u></p>
CATV/MATV Systems – Equipment, Devices & Testing	1700	<p>Equipment and devices include:</p> <ul style="list-style-type: none"> • Layout, measuring and marking • Moving equipment to a central location. • Master Antenna on roof • Splitters at backboard and/or hallways • Cable drop amplifiers as required • Installing RF amplifier • Installing BNC jacks • Installing CATV device plates • Cable terminations at devices

e-Cost Labor Category Codes

Category	Cat.	Category Description
<p style="text-align: center;">CATV/MATV Systems – Conduit & Condulets and/or Provisions</p>	<p style="text-align: center;">1710</p>	<p>Conduit and condulets includes:</p> <ul style="list-style-type: none"> • Moving material to a central location • Layout of conduit runs • Measuring and marking • Core drilling for device circuits • Setup of staging, ladders or lifts • Conduit vertical and horizontal runs • Conduit hangers and supports including field fabrications • Conduit fittings including couplings, bodies, locknuts and bushings • Factory and/or field bends • Junction and pull boxes • Device boxes, rings, extensions etc. • Device backboxes • Combination backboxes
<p style="text-align: center;">CATV/MATV Systems – Wire & Cable</p>	<p style="text-align: center;">1720</p>	<p>Installation of cable and wire include:</p> <ul style="list-style-type: none"> • Cable/wire from Master Antenna (MA) • Cable/wire from Cable Co. utility pole • Cable/wire to backboard • Cable/wire to hallway splitters • Cable/wire to BNC devices • Terminations at backboard blocks or splitters • Terminations at hallway splitters • Terminations at BNC devices • Testing <p>Note: Branch power 110V circuits, receptacles, connections, conduit and wire fall under the <u><i>Device Categories 0800, 0810 & 0820.</i></u></p>

e-Cost Labor Category Codes

Category	Cat.	Category Description
Tele/Data/Video – Equipment, Devices, Testing	1750	<p>Tele/Data/Video includes:</p> <ul style="list-style-type: none"> • Installing data cabinet or racks, either wall or floor mount • Installing rack components i.e. cable rings, cable guides, power strips, patch panels, patch cords etc. • Installing video racks, either wall or floor mount • Installing video rack components i.e. amplifier, media center controller, channel elimination filter, channel processor, combiners, VCR, DVD, laser disk etc. • Installing video in line cable drop amplifiers, directional splitters, PBX interface to media, VOS A/B switch • Installing video attenuator pads • Installing data devices • Installing telephone devices • Installing video devices • Installing combination teacher devices • Tele/Data cable terminations at devices • Tele/Data cable terminations at punch down blocks • Tele/Data cable terminations at patch panels • PBX system including cross connect blocks <p><u>Note #1:</u> In many instances the PBX equipment, installation and terminations are supplied by <u>Intercommunication Category 1200</u>, check with project manager for correct category.</p> <p><u>Note #2:</u> Branch power 110V circuits, receptacles, connections, conduit and wire fall under the <u>Device Categories 0800, 0810 & 0820</u>.</p>

e-Cost Labor Category Codes

Category	Cat.	Category Description
Tele/Data/Video – Conduit, Condulets, Cable Tray and/or Provisions	1760	Conduit and condulets includes: <ul style="list-style-type: none"> • Moving material to a central location • Layout of conduit runs • Measuring and marking • Core drilling for device circuits • Setup of staging, ladders or lifts • Conduit vertical and horizontal runs • Conduit between IDF rooms • Conduit from device box to hallway cabletray • Conduit hangers and supports including field fabrications • Conduit fittings including couplings, bodies, locknuts and bushings • Factory and/or field bends • Junction and pull boxes • Device boxes, rings, extensions etc. • Device backboxes • Combination backboxes • Cabletray in Tele/Data/Video rooms • Cabletray in hallways • Cabletray hangers and fittings • Backboards • Install pull strings
Tele/Data/Video – Cabling	1770	Installation of cable and wire include: <ul style="list-style-type: none"> • Cable/wire from tele/data utility source • Cable/wire from Cable Co. utility pole • Cable/wire to video rack • Cable/wire to data rack • Cable/wire to telephone backboard • Cable/wire between tele/com/media rooms • Cable/wire between IDF rooms • Cable/wire to video jacks • Cable/wire to data jacks • Cable/wire to telephone jacks • Cable/wire to teacher stations <p>Note: Branch power 110V circuits, receptacles, connections, conduit and wire fall under the <u><i>Device Categories 0800, 0810 & 0820.</i></u></p>

e-Cost Labor Category Codes

Category	Cat.	Category Description
Nurse Call System – Equipment & Devices	1800	<p>Equipment & devices include:</p> <ul style="list-style-type: none"> • Nurse call central processing unit • Master station console w/keyboard and monitor • Patient voice stations • Staff voice stations • Duty call stations • Psychiatric voice and assist stations • Emergency call stations • Code blue call stations • Hallway signal light • Peripheral items including pillow call & speaker • Cable terminations • System testing • System training <p>└ <u>Reminder:</u> Final cable terminations to devices and the master station fall within this category.</p> <p><u>Note:</u> Branch power 110V circuits, receptacles, connections, conduit and wire fall under the <u>Device Categories 0800, 0810 & 0820.</u></p>
Nurse Call System – Conduit & Condulets and/or Provisions	1810	<p>Conduit and condulets includes:</p> <ul style="list-style-type: none"> • Moving material to a central location • Layout of conduit runs • Measuring and marking • Core drilling for device circuits • Setup of staging, ladders or lifts • Conduit vertical and horizontal runs • Conduit hangers and supports including field fabrications • Conduit fittings including couplings, bodies, locknuts and bushings • Factory and/or field bends • Junction and pull boxes • Device boxes, rings, extensions etc. • Device backboxes • Combination backboxes

e-Cost Labor Category Codes

Category	Cat.	Category Description
Nurse Call System – Wire & Cable	1820	<p>Cable installation includes:</p> <ul style="list-style-type: none"> • Moving material to a central location • Setting up wire racks • Measuring & marking • Cable to and from nurse call central processing unit • Cable to and from master station console w/keyboard and monitor • Cable to and from patient voice stations • Cable to and from staff voice stations • Cable to and from duty call stations • Cable to and from psychiatric voice and assist stations • Cable to and from emergency call stations • Code blue call stations • Cable to and from hallway signal light <p>⌞ <u>Reminder</u>: Final cable terminations to devices, stations and the master station fall within <u>Category 1800</u></p>
Residential Interiors –Setting Boxes for Power & Lighting	1900	<p>Unlike commercial or institutional electrical installations where projects are installed system by system such as lighting, mechanical, fire alarm etc. Residential wiring lacks these clear cut divisions of labor. For this reason labor reporting will be simplified into installing boxes, rough wiring and installing devices and finishes.</p> <p>Setting boxes for power and lighting includes:</p> <ul style="list-style-type: none"> • Moving material to a central location • Measuring and marking wood or metal studs for devices • Marking headers for hole drilling • Install blocking or other fabrication methods to position boxes in the proper location • Coordinate cable routing and box location with other trades • Installing plastic or metal boxes for switches, receptacles, lighting fixtures and mechanical equipment
Residential Interiors – Setting Boxes for Low Voltage Systems, Tele/Data/CATV	1905	<p>Setting boxes for low voltage systems includes:</p> <ul style="list-style-type: none"> • Moving material to a central location • Measuring and marking wood or metal studs for devices • Marking headers for hole drilling • Install blocking or other fabrication methods to position boxes in the proper location • Coordinate cable routing and box location with other trades • Installing plastic or metal boxes for telephone devices, fax/data devices, CATV/MATV and doorbell or call system

e-Cost Labor Category Codes

Category	Cat.	Category Description
Residential Interiors – Rough-in Romex or MC for Power & Lighting	1910	Rough-in for power and lighting includes: <ul style="list-style-type: none"> • Moving material to a central location • Setting up cable racks • Laying out cable runs • Drill vertical and horizontal holes in wood studs • Punch headers and install bushings in metal studs • Run romex or MC to all device boxes • Strip romex or MC and bring into device boxes • Fasten romex or MC cable with insulated staples or metal stud clips • Make up splices in each switch and receptacle box including ground wire • Install cable connectors, strip romex or MC and bring cable into panelboards or load centers <p style="margin-left: 40px;">└ <u>Reminder:</u> Final circuit terminations to branch breakers falls under <u>Switchgear & Panelboards Category 0100</u></p>
Residential Interiors – Rough-in Cable for Tele/Data/CATV	1915	Rough-in for Tele/Data/CATV includes: <ul style="list-style-type: none"> • Moving material to a central location • Setting up cable racks • Laying out cable runs • Drill vertical and horizontal holes in wood studs • Punch headers and install bushings in metal studs • Run coaxial cable to all CATV boxes • Install BNC connectors on each side of CATV cable • Loop telephone cable to each telephone device box • Run fax/data cable from telephone backboard or box to fax/data device box • Install doorbell or master entry system cable to device or connection box • Fasten coaxial, telephone, bell or signal cable with insulated staples or metal stud clips • Strip cable and bring into the appropriate device box and source location. <p style="margin-left: 40px;">└ <u>Reminder:</u> Final circuit terminations to device and punchdown blocks fall under <u>Low Voltage Systems Equipment Category 1930</u></p>

e-Cost Labor Category Codes

Category	Cat.	Category Description
Residential Interiors – Lighting Fixtures	1920	Lighting fixtures include: <ul style="list-style-type: none"> • Moving material to a central location • Uncrating and assembling lighting fixtures • Distribution lighting fixtures where they are to be installed • Setup ladders and/or staging • Install and level fixtures • Install lamps • Test fixtures and switching • Remove and dispose of packing materials
Residential Interiors – Finish Devices, Switches, Receptacles & Plates	1925	Finish devices include: <ul style="list-style-type: none"> • Moving material to a central location • Distributing devices where they are to be installed • Duplex receptacles 15 & 20 amp residential or intermediate grade • Dryer outlet 30A surface or flush mount • Range outlet 50A-60A surface or flush mount • Final connections to pumps, boilers, safety switches, time switches etc. • Connection to dishwasher, disposal and range hood • Installation of exterior GFI receptacles • Installation of switches • Connection of hot water heater • Installation of local smoke detectors • Installation of Gentex type audio visual FA devices • Installation of all device and box covers <p>┌ Reminder: Final device circuit terminations to branch breakers falls under <u><i>Switchgear & Panelboards Category 0100</i></u></p>
Residential Interiors – Low Voltage Systems Equipment, Devices & Plates	1930	Low voltage finishes include: <ul style="list-style-type: none"> • Moving material to a central location • Distributing devices where they are to be installed • CATV jacks • Telephone jacks • Fax/data jacks • Central doorbell system components • Local doorbell system components • Thermostat • Final cable terminations at devices and master control equipment • Final cable terminations at punchdown blocks

e-Cost Labor Category Codes

Category	Cat.	Category Description
Specialties - Scoreboard	2050	<p>Installation of a scoreboard should include:</p> <ul style="list-style-type: none"> • Moving scoreboard from storage or delivery point to area of installation. • Uncrating and unpacking scoreboard unit and accessories • Layout measuring and marking • Fabrication of mounting assembly • Hoisting equipment and staging • Mounting of unit • Installation of prefabricated cabling harness through preinstalled conduit • Dispose of packing materials • Terminate cables per manufacturers instructions • Test scoreboard and train owners personnel <p>Note #1: Conduit installation will fall under <u>Category 0210 Mechanical Systems – Conduit & Armored Cable</u></p> <p>Note #2: Power to the scoreboard will fall under <u>Category 0220 Mechanical Systems – Wire & Terminations</u></p>
Specialties – Ballfield Lighting	2060	<p>Ballfield Lighting includes:</p> <ul style="list-style-type: none"> • Installation of pole base to recommended depth • Coordinating delivery of pole assemblies to equipment rental • Installation of pole and fixtures • Tie-in line side of integral panelboard <p>Note #1: Conduit installation for ballfield lighting will fall under <u>Category 0110 Service & Distribution – Feeder Conduit</u></p> <p>Note #2: Power and wire for ballfield lighting will fall under <u>Category 0120 Service & Distribution – Cable and Wire</u></p> <p>Note #3: Power source and main breaker for ballfield lighting will fall under <u>Category 0120 Service & Distribution – Switchgear & Panelboards</u></p>

e-Cost Labor Category Codes

Category	Cat.	Category Description
Electrical Demolition – Service & Distribution	2100	<p>Service & distribution demolition includes:</p> <ul style="list-style-type: none"> • Removing switchboards • Removing panelboards • Removing load centers • Removing MCC's • Removing disconnects • Removing transformers • Removing enclosed circuit breakers • Removing switchboard breakers • Removing panelboard breakers • Removing load center breakers • Removing safety switches • Removing starters & combination starters • Removing TVSS transformers • Removing UPS equipment • Removing lighting contactor • Removing relay panelboards • Primary conduit & wire to pad mount transformer • Secondary conduit & wire from transformer to switchboard • Conduit & wire from switchboard to distribution panelboard • Conduit & wire from distribution panelboard to lighting panelboard • Conduit & wire from distribution panelboard to branch power panelboard • Conduit & wire from panelboard to primary of dry transformer • Conduit & wire from dry transformer secondary • Conduit & wire to mechanical equipment supplied by others • Conduit & wire to UPS System • Conduit & wire to lighting contactor • Conduit & wire to relay panelboard • Conduit & wire to MCC primary • Conduit & wire to safety switch line & load side • Conduit & wire to starter line & load side • Conduit & wire to combination starter line & load • Remove all pull boxes and troughs for above equip. • Remove all hangers, supports, fittings, fabrications, field bends etc.

e-Cost Labor Category Codes

Category	Cat.	Category Description
<p>Electrical Demolition – Lighting & Branch Wiring</p>	<p>2110</p>	<p>Demolition of lighting and branch wiring includes:</p> <ul style="list-style-type: none"> • Removing fixtures • Removing fixture support, jack chain, pendants, aircraft cables • Removing junction boxes • Removing lamps • Removing PCB ballasts • Removing stage dimming equipment including conduit and wire • Removing lighting contactors • Conduit hangers and supports including field fabrications • Conduit fittings and wire including couplings, bodies, locknuts and bushings • Fixture whips • Factory and/or field bends • Junction and pull boxes • Switch boxes • Switches including conduit & wire • Time clocks, and branch conduit & wire • Occupancy sensors including conduit & wire • Pole bases including cadwelds, wire and rods • Site lighting conduit runs

e-Cost Labor Category Codes

Category	Cat.	Category Description
Electrical Demolition – Devices & Mechanical Equipment	2120	<p>Demolition of devices and mechanical equipment includes removal of:</p> <ul style="list-style-type: none"> • Manual starters including conduit and wire • Magnetic starters including conduit and wire • Combination starters including conduit and wire • Heating contactors including conduit and wire • MCC structures and starters including conduit and wire • Disconnect switches including conduit and wire • Variable frequency drives (VFD) including conduit and wire • Motor driven kitchen equipment including conduit and wire • Boiler controls, limit switches, level switches etc. including conduit and wire • Pump control, flow switch, level switch, stop-start etc. including conduit and wire • Mechanical equipment supplied by others including conduit and wire • Motor switches including conduit and wire • Thermal switches including conduit and wire • Standard receptacles including conduit and wire • Hospital grade receptacles including conduit and wire • Isolated ground receptacles including conduit and wire • Receptacles in wiremold including conduit and wire • Explosion-Proof receptacles including conduit and wire • Twist-Lock receptacles including conduit and wire • Receptacles for kitchen equipment including conduit and wire • Oven, range, dryer receptacles including conduit and wire • Receptacles for Tele/Data/Video equipment including conduit and wire • Receptacles for floor boxes including conduit and wire • Receptacles for local sound systems 120V including conduit and wire • Receptacles and/or connections to clock control panel 120V including conduit and wire • Receptacles and/or connections to FACP 120V including conduit and wire • Receptacles and/or connections to Security System 120V including conduit and wire • Receptacles and/or connections to CCTV cameras 120V including conduit and wire • Receptacles and/or connections to power poles including conduit and wire • Receptacles and/or connections to modular furniture systems including conduit and wire

e-Cost Labor Category Codes

Category	Cat.	Category Description
Electrical Demolition – Low Voltage Systems, FA, Sound etc.	2130	Demolition of low voltage systems includes removal of : <ul style="list-style-type: none"> • Fire alarm system including conduit and cable • Clock system including conduit and cable • Paging system including conduit and cable • Local sound system including conduit and cable • Telephone system including conduit and cable • Data system including conduit and cable • Security system including conduit and cable • CCTV system including conduit and cable • CATV system including conduit and cable • MATV system including conduit and cable • Multi media system including conduit and cable
Job Expense	2200	
Miscellaneous	2300	
Subcontractor	2400	
Supervision	2500	
Change Orders	2600	