

Commercial Electrical Photo Checklist

Commercial electrical work — switchgear, conduit runs, panel feeders, specialty systems — disappears above drop ceilings, inside walls, and below slab long before anyone reviews it. When an AHJ inspection fails, a GC disputes scope, or a liability claim surfaces, the question is always the same: **can you prove what was installed, how it was terminated, and that it was tested?** This guide gives your crew the exact shots to capture on every commercial job — from tenant improvements and retrofits to new construction.

THE 7 PHASES

Document Every Phase, Protect Every Job

01 PHASE Pre-Job & Site Assessment

- Existing panel / switchgear condition
- Service voltage (120/208/480V)
- Panel brand, model & bus rating
- Utility meter & CT cabinet location
- Available fault current (OCPD rating)
- Existing conduit & wire condition
- Permit & approved drawings on-site
- Arc flash hazard assessment posted
- Site contact & GC coordination noted
- Existing load schedule reviewed

02 PHASE Safety, LOTO & Pre-Conditions

- LOTO applied — all energy sources
- Voltage tester on known live bus
- Arc flash PPE level confirmed & worn
- Arc flash boundary posted
- Working clearance: 36" min (480V)
- Dead front installed during work
- Fire watch posted (hot work permit)
- Grounding & bonding pre-work check
- Asbestos / hazmat survey completed

03 PHASE Conduit, Raceway & Rough-In

- Wide shot — all conduit rough-in
- Conduit type & trade size labeled
- Conduit supports per NEC 344 / 358
- Conduit fill ratio documented
- Expansion fittings at structure joints
- Conduit seals at fire-rated walls
- Rigid conduit bends — no kinks
- Pull boxes — accessible & sized
- Conduit stub-ups & sleeves in slab
- Underground before backfill / pour



04 PHASE Wire, Terminations & Splices

- Wire type, gauge & voltage rating
- Wire color code per NEC 210 / 230
- High-leg delta identified (208Y)
- Terminations — torque wrench used
- All splices in listed enclosures
- Neutral conductor sized for load
- Torque value label on each lug
- Wire labels at both ends of run
- Grounding conductor size & color

05 PHASE Panel, Switchgear & Distribution

- Panel / MCC nameplate & bus rating
- Phase balance — all phases loaded
- Panel directory — all circuits labeled
- Main breaker or fused switch size
- Neutral & ground separated (sub)
- Breaker handle ties where required
- OCPD sizes match wire gauge & load
- Grounding electrode system done
- Arc flash label on each panel

06 PHASE Specialty Systems & Code Items

- Emergency lighting circuit & test
- Dedicated circuits: server / IT room
- Ground fault protection (>1000A)
- Exit sign circuit & illumination
- Generator ATS wiring & interlock
- HVAC / mechanical unit circuits
- Fire alarm circuit wiring & routing
- Surge protection device installed
- Outdoor / wet location enclosures

07 PHASE Inspection, Testing & Closeout

- Rough-in inspection approval sticker
- Panel torque re-check documented
- As-built conduit routing photos
- Final inspection approval on permit
- Load bank or energization test photo
- Arc flash study label affixed
- Megger / insulation test results
- All enclosures & covers installed
- Client / GC walkthrough completed

HOW TO USE THIS IN THE FIELD

Turn This Checklist Into Your Daily Workflow

- 01 Photograph Underground & Slab Work First**

Conduit sleeves, stub-ups, and grounding electrodes get buried permanently. These are your only opportunities — document them before the pour.
- 02 Capture Every Torque, Label & Test Result**

Lug torque values, wire labels, phase rotation, megger readings, and arc flash labels are the technical proof that work was done to spec.
- 03 Document LOTO & Safety Compliance on Every Job**

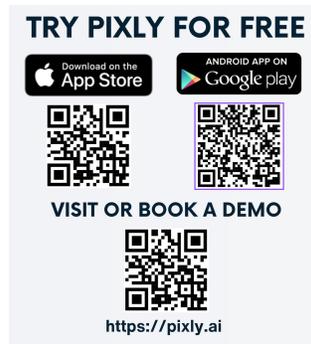
Photos of lockout tags, PPE in use, arc flash boundaries, and working clearances protect your crew and company in the event of an incident.
- 04 Get AHJ Approval in the Shot, Every Time**

A photo of rough-in or final work alongside the stamped permit and inspector's signature is your strongest protection against scope disputes and re-inspection costs.

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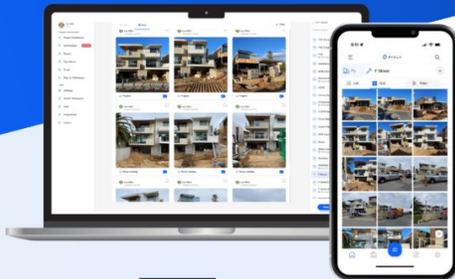
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