

ELECTRICAL INSPECTION CHECKLIST

1. General Information

Client Name:

Address:

Date of Inspection:

Technician Name:

Inspector License Number:

Type of Inspection:

Residential
Commercial
Industrial

Reason for Inspection:

Routine Maintenance
New Installation
Property Sale
Fault Investigation

2. Electrical Service and Main Panel

2.1 Service Entrance

Inspect service entrance wires for damage or deterioration.
Verify proper grounding and bonding.
Check for clearances from windows, roofs, and other structures.

2.2 Main Service Panel

Confirm panel is accessible and labeled.
Ensure the panel is securely mounted.
Check for signs of corrosion or overheating.
Verify circuit breakers/fuses are of proper size and type.
Inspect for double-tapping or improper wiring.
Ensure no unused openings are left unsealed.
Test main breaker operation.

3. Sub-Panels

Inspect sub-panels for secure mounting.
Check wire connections and insulation condition.
Verify circuit breakers are labeled and sized correctly.
Confirm grounding and bonding to the main panel.

4. Branch Circuits

4.1 Wiring Conditions

Inspect for frayed or exposed wires.
Verify type and gauge of wiring used is appropriate for the circuit.
Check for signs of overheating or corrosion.

4.2 Conduits and Junction Boxes

Ensure conduits are securely fastened and grounded.
Confirm all junction boxes are covered and accessible.
Check for proper wire connections and splices.

5. GFCI and AFCI Protection

5.1 Ground Fault Circuit Interrupters (GFCI)

Test all GFCI outlets in wet or outdoor areas (kitchens, bathrooms, garages).
Verify proper installation and function (test and reset buttons).

5.2 Arc Fault Circuit Interrupters (AFCI)

Test AFCI protection in living spaces, bedrooms, and required areas.
Check that AFCI breakers function correctly.

6. Outlets, Switches, and Fixtures

6.1 Outlets

Test all outlets for functionality.
Inspect outlets for grounding (especially in older homes).
Ensure no reverse polarity or open neutral conditions.
Check outlet faceplates for cracks or damage.

6.2 Switches

Test all switches for proper operation.
Inspect for any sparking or unusual sounds during operation.

6.3 Lighting Fixtures

Verify lighting fixtures are securely installed.
Check bulbs for proper wattage and compatibility.
Inspect for any exposed wiring or loose connections.

7. Grounding and Bonding

Verify system is properly grounded to a grounding rod, water pipe, or other approved methods.
Inspect bonding of service panel, sub-panels, and metallic parts.
Confirm grounding conductors are appropriately sized and terminated.

8. Surge Protection

Inspect for whole-house surge protection devices (if applicable).
Verify individual surge protectors for sensitive equipment (computers, HVAC).

9. Smoke & Carbon Monoxide Detectors

Test all smoke detectors for functionality.
Check carbon monoxide detectors are installed in required areas and functioning.
Verify detectors are within the expiration date.

10. HVAC Electrical System

Inspect electrical connections to HVAC systems.
Verify fuses or breakers for HVAC equipment are properly sized.
Check for any signs of wear, corrosion, or improper wiring at HVAC units.

11. Electrical Appliances

Inspect wiring and connections for major appliances (washer, dryer, oven).
Ensure appliances are on dedicated circuits if required.
Check that all appliances are grounded.

12. Electrical Safety Compliance

Ensure compliance with local, state, and national electrical codes (NEC, IEC).
Verify all electrical work has necessary permits and inspections.
Ensure safety signage or markings are present where required.

13. Final Assessment

Overall Condition of the Electrical System:

Satisfactory Needs Improvement
Hazardous, requires immediate attention

Priority Repairs Needed:

Follow-up Required:

Yes No

Next Inspection Date:

Signature of Technician:

Date: