

# 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: