

Evaluating the Effectiveness of Facility Wiring Inspection and Maintenance Programs: Checklist



Effective inspection and maintenance of your facility's electrical wiring is critical to preventing electrical hazards, minimizing equipment downtime, and ensuring compliance with occupational health and safety regulations.

As an OHS specialist, your role includes confirming that reliable systems are in place to identify, document, and correct wiring issues proactively. Use the checklist below as a practical tool to evaluate your current practices, ensure consistency, and improve safety outcomes across your facility.

Facility Wiring Inspection and Maintenance Checklist

- ☐ Is there a documented electrical inspection schedule in place for the entire facility?
- ☐ Are qualified electricians or certified maintenance personnel conducting all inspections?
- ☐ Are inspection records maintained for all electrical systems and wiring components?
- ☐ Are visual inspections performed regularly for signs of

damaged conduit, frayed wires, or exposed conductors?

☐Are overloaded circuits or tripped breakers flagged for immediate follow-up and root cause analysis?

☐Are junction boxes and electrical panels clearly labeled and easily accessible?

☐Are electrical panels kept closed, clean, and free from obstructions or unauthorized storage?

☐Are maintenance staff trained to recognize early signs of electrical wear or overheating (e.g., discoloration, burning smell)?

☐Are wiring installations reviewed after renovations, equipment additions, or process changes?

☐Are ground fault circuit interrupters (GFCIs) tested on a regular schedule?

☐Are all wiring systems installed and maintained in accordance with the Canadian Electrical Code (CEC) or relevant local standards?

☐Is there a defined process for reporting and repairing electrical hazards or deficiencies?

☐Are cable trays, conduits, and raceways securely mounted and free from corrosion or mechanical stress?

☐Are areas with higher risk of moisture (e.g., kitchens, wash bays) inspected more frequently for water intrusion near wiring?

☐Is preventive maintenance software or tracking used to monitor wiring-related tasks, inspections, and corrective actions?

A strong inspection and maintenance program for facility wiring not only protects people and property but also ensures

operational continuity and compliance. By regularly reviewing the items above, safety leaders can identify weaknesses in their program, close gaps before incidents occur and foster a culture of electrical safety. Organizations that integrate this checklist into their safety management systems will be better positioned to meet both regulatory requirements and internal risk reduction goals.