



Circuit Breaker Maintenance Checklist

Tips and Tasks

Circuit Breaker Maintenance

Routine Preventive Maintenance

Company: _____

Worksite address: _____

Inspected by: _____

Date: _____ Time: _____

Circuit Breaker Maintenance Tasks

NOTES

- Inspect for cracks, casing damage, signs of overheating.
- Measure the resistance of electrical insulation.
- Test contacts to confirm low resistance/high conductivity.
- Perform over-potential test to verify insulation strength.
- Test circuit breaker's opening and closing times.
- Perform trip testing to ensure breaker trips as intended.
- Lubricate all moving key components.
- Clean contacts with a high-pressure air blast.
- Calibrate settings to ensure proper sequence operation.
- Adjust the interrupting structure mechanism, if needed.
- Keep a log of maintenance tasks and dates performed.

Circuit Breaker Maintenance

Advanced Maintenance/Best Practices

Company: _____

Worksite address: _____

Inspected by: _____

Date: _____ Time: _____

Advanced Circuit Breaker Maintenance

NOTES

- Use thermal imaging to detect device anomalies.
- Test for wear or misalignment with vibration analysis.
- Perform oil analysis on units with oil-filled components.

Best Practices for Circuit Breaker Maintenance

- Inspect high-voltage circuit breakers every 6-12 months.
- Inspect medium-voltage circuit breakers annually, or after every 2,000 operations.
- Follow the manufacturer’s guidelines for maintenance recommendations.
- Utilize thermal imaging and/or an online monitoring system for early issue detection.
- Monitor environmental conditions that can lead to damage (temperature, humidity, contamination).

Circuit Breaker Maintenance

Troubleshooting Common Issues / Additional Notes

Company: _____

Worksite address: _____

Inspected by: _____

Date: _____ Time: _____

Common Circuit Breaker Problems and Solutions

- Overload:** Unplug devices, check for short circuits, and redistribute loads.
- Short-Circuiting:** Quickly identify and fix the root cause to prevent fire and damage.
- Miswiring:** Contact a licensed electrician or personnel with proper electrical training for repair.
- Buzzing noise:** Requires immediate attention, contact a professional electrician to assess and resolve.

Additional Notes