

Attachment 3 – Live Electrical Hazard Classification and Requirements

Voltage	Class	Criteria	Training Requirements	Safety Watch and/or Two-Person Rule	Documentation Required
50 Volts and Below	A¹ (Low-Hazard Operations)	Injury not likely.	Electrical safety awareness training	N/A	None
300 VAC/DC and Below	B (Medium-Hazard Operations)	Potential for severe injury or death. Low to moderate arc flash hazard potential.	Basic Electrical Safety Training ² LOTO CPR/AED	N/A	Energized Electrical Work Permit ³ and Written Procedure <i>(included in permit)</i>
Above 300 VAC/DC and Below 600 VAC/DC	C (Hazardous Operations)	Potential for severe injury or death is greater. Moderate to significant arc flash hazard potential.	Qualified Electrician Training ² LOTO CPR/AED	Two-Man Rule whenever an EEW Permit is required	Energized Electrical Work Permit ³ and Written Procedure <i>(included in permit)</i>
Work below to only be performed by qualified contractor					
Above 600 VAC/DC	D (High-Hazard Operations)	Potential for severe injury or death is greatest. Severe arc flash hazard potential.	Qualified Electrician Training High Voltage Training LOTO CPR/AED	Safety Watch (Total of 2 or more persons at work site)	Energized Electrical Work Permit ³ and Written Procedure <i>(included in permit)</i>

NOTES:

1. High-voltage sources with fault currents less than 5 ma are considered a Class “A” hazard.
2. Both basic and qualified electrician training includes an annual review of this program and all appendices pertinent to the employee’s work assignment, as required by the above table, Attachment 4, and any other training(s) identified by the employee’s Supervisor required for the safe performance of the employee’s duties.
3. An energized electrical work permit is not required for troubleshooting and testing of low voltage (<600 volts) electrical circuits and equipment provided appropriate safe work practices are followed and appropriate PPE used.