Electrical Task Assessment Checklist

Disclaimer –

This checklist is intended to assist with the assessment to perform “energized electrical work”. According to OSHA, most work is **NOT** permitted on any machinery or other electrical equipment when energized. The OSHA standard (see below), does allow for working on energized electrical equipment in very specific circumstances, and this checklist is provided to be used to assess the tasks once you have determined you meet the standard to keep the equipment energized.

OSHA refers to the National Fire Protection Association (NFPA) guidelines in some instances, and OSHA may refer to the National Electrical Code (NEC). This checklist is to be used in conjunction with the applicable NFPA tables and NEC codes. Additionally, your state or local municipality may have additional regulations which need to be followed when performing energized electrical work.

The OSHA standard regarding energized electrical work states –

29 CFR [1910.333(a)(1)](https://www.osha.gov/laws-regs/interlinking/standards/1910.333(a)(1))

*"Deenergized parts": Live parts to which an employee may be exposed shall be deenergized before the employee works on or near them, unless the employer can demonstrate that deenergizing introduces additional or increased hazards or is infeasible due to equipment design or operational limitations. Live parts that operate at less than 50 volts to ground need not be deenergized if there will be no increased exposure to electrical burns or to explosion due to electric arcs.*

*Note 1: Examples of increased or additional hazards include interruption of life support equipment, deactivation of emergency alarm systems, shutdown of hazardous location ventilation equipment, or removal of illumination for an area.*

*Note 2: Examples of work that may be performed on or near energized circuit parts because of infeasibility due to equipment design or operational limitations include testing of electric circuits that can only be performed with the circuit energized and work on circuits that form an integral part of a continuous industrial process in a chemical plant that would otherwise need to be completely shut down in order to permit work on one circuit or piece of equipment.*

*Note 3: Work on or near deenergized parts is covered by paragraph (b) of this section.*

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## ***Date: Job Location:***

## ***Equipment:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_***

Yes No

❑ ❑ 1. Is the equipment operating at more than 50 volts or is a shock hazard present?

If “no,” the rest of this form is not applicable. Hazard/risk analysis is not required for this task.

If “yes,” perform a hazard/risk analysis.

1. Determine the shock protection boundaries. (See NFPA 70E, Table 130.2(C))

Limited approach boundary:­­­­­­­­­­­­­­­­­ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Restricted approach boundary: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Prohibited approach boundary: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

3. Determine the flash protection boundary. (See NFPA 70E, 130.3(A))

Flash protection boundary: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 4. Select the hazard/risk category for the task. (See NFPA 70E, Table 130.7(C)(9)(a))

Hazard/risk category: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. Determine the available fault current and clearing time for this equipment:

\_\_\_\_\_\_\_\_\_\_ kA \_\_\_\_\_\_\_\_\_\_ cycles

The available fault current must be \_\_\_\_\_\_\_\_\_\_ kA or less with

\_\_\_\_\_\_\_\_\_\_ cycle clearing time or less for the table to be applicable. (See notes to Table 130.7(C)(9)(a))

Yes No

❑ ❑ Is Table 130.7(C)(9)(a) applicable?

If “yes”, the table is applicable.

If “no”, further investigation and analysis are required.

Yes No

❑ ❑ 6. Are voltage-rated tools required?

❑ ❑ 7. Are voltage-rated gloves required?

8. Check notes to table and list any additional requirements:

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9. List PPE required for the hazard/risk category: (See NFPA 70E Table 130.7(C)(10))

10. List minimum ATPV values for PPE clothing for the hazard/risk category: (See NFPA 70E Table 130.7(C)(11))

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