

# Electrically Qualified Person Skills Assessment

## NFPA 70E 2012 Definition of a Qualified Person

One who has skills and knowledge related to the construction and operation of the electrical equipment and installations and has received safety training to recognized and avoid the hazards involved.

## NFPA 70E Article 110 (D) Employee Training

### (1) Qualified Person

(a) Such persons shall also be familiar with the proper use of the special precautionary techniques; personal protective equipment including arc flash suit; insulating and shielding materials; and insulated tools and test

(b) Such persons permitted to work within the limited approach boundary of exposed energized electrical conductors and circuit parts operating at 50 volts or more shall, at a minimum, be additionally trained in all of the

(1) Skills and techniques necessary to distinguish exposed energized electrical conductors and circuit parts from other parts of electrical equipment.

(2) Skills and techniques necessary to determine the nominal voltage of exposed energized electrical conductors and circuit parts

(3) Approach distances specified in Table 130.4( C )(a) and Table 130.4 ( C ) (b) and the corresponding voltage to which the qualified person will be exposed.

(4) Decision-making process necessary to determine the degree and extent of the hazard and the personal protective equipment and job planning necessary to perform the task safely.



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| Qualified Person-1-b(1) Skills and techniques necessary to distinguish exposed energized electrical conductors and circuit parts from other parts of electrical equipment. |                          |                          |
|--|--------------------------|--------------------------|
| (Can use Electrical Safe Working Practices Booklets)   |                          |                          |
| <b>Switchboards and Panelboards</b>  | OK                       | Not OK                   |
| Demonstrates ability to identify incoming conductors   | <input type="checkbox"/> | <input type="checkbox"/> |
| Demonstrates ability to identify bus bars and breakers/ fused disconnect switches  | <input type="checkbox"/> | <input type="checkbox"/> |
| Demonstrates ability to distinguish energized parts from de-energized parts  | <input type="checkbox"/> | <input type="checkbox"/> |
| Demonstrates ability to identify Main Lug Only (MLO) from Main Breaker type switchboard or panelboard  | <input type="checkbox"/> | <input type="checkbox"/> |
| Demonstrates ability to identify which circuit parts remain energized after properly de-energizing Main Breaker or Fused Disconnect Switch                                 | <input type="checkbox"/> | <input type="checkbox"/> |
| <b>Fused Disconnect Switches</b>   | OK                       | Not OK                   |
| Demonstrates ability to identify incoming conductors   | <input type="checkbox"/> | <input type="checkbox"/> |
| Demonstrates ability to distinguish energized parts from de-energized parts  | <input type="checkbox"/> | <input type="checkbox"/> |
| Demonstrates ability to identify which circuit parts remain energized after properly de-energizing Main Breaker or Fused Disconnect Switch                                 | <input type="checkbox"/> | <input type="checkbox"/> |
| <b>Motor Starters</b>  | OK                       | Not OK                   |
| Demonstrates ability to identify incoming conductors   | <input type="checkbox"/> | <input type="checkbox"/> |
| Demonstrates ability to identify which circuit parts remain energized after properly de-energizing Breaker or Fused Disconnect Switch                                      | <input type="checkbox"/> | <input type="checkbox"/> |
| Demonstrates ability to distinguish energized parts from de-energized parts  | <input type="checkbox"/> | <input type="checkbox"/> |
| 1) Can properly identify contactor and describe its basic operation  | <input type="checkbox"/> | <input type="checkbox"/> |
| 2) Can properly identify overload relay contacts terminations and describe basic operation   | <input type="checkbox"/> | <input type="checkbox"/> |
| 3) Can properly identify primary contacts and terminations (line and load side)  | <input type="checkbox"/> | <input type="checkbox"/> |
| 4) Can properly identify auxiliary contacts and terminations   | <input type="checkbox"/> | <input type="checkbox"/> |
| 5) Can properly identify control power transformer and identify its terminals and operating voltage  | <input type="checkbox"/> | <input type="checkbox"/> |
| 6) Can properly identify coil and identify its terminals and operating voltage   | <input type="checkbox"/> | <input type="checkbox"/> |

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| <b>Qualified Person-1-b(2) Skills and techniques necessary to determine the nominal voltage of exposed energized electrical conductors and circuit parts</b> |                          |                          |
|--|--------------------------|--------------------------|
| <b>(Can use Electrical Safe Working Practices Booklets)</b>  |                          |                          |
| <b>Determining nominal voltage levels</b>  |                          |                          |
|  | <b>OK</b>                | <b>Not OK</b>            |
| Can identify the location and voltage level of the Utility Primary (i.e., 4160V, 12470V, 13,200V)  | <input type="checkbox"/> | <input type="checkbox"/> |
| Understands that any work or exposure above 480V is prohibited   | <input type="checkbox"/> | <input type="checkbox"/> |
| Can demonstrate through the use of drawings and/ or nameplate information the nominal voltage level expected   | <input type="checkbox"/> | <input type="checkbox"/> |
| Can demonstrate the safe, proper use of a multimeter to measure the nominal voltage level  | <input type="checkbox"/> | <input type="checkbox"/> |

# Electrically Qualified Person Skills Assessment

**Qualified Person-1-b(3) Approach distances specified in Table 130.4( C )(a) and Table 130.4( C ) (b) and the corresponding voltage to which the qualified person will be exposed.**

(Can use Electrical Safe Working Practices Booklets)

| <b>Task</b>  | <b>OK</b>                | <b>Not OK</b>            |
|--|--------------------------|--------------------------|
| Understands the requirements and restrictions of the Limited Approach Boundary   | <input type="checkbox"/> | <input type="checkbox"/> |
| Can name the Limited Approach Boundary at 120V, 208V, 240V, 480V and the Utility Primary Distribution voltage (i.e., 4160V, 12470V, 13200V)    | <input type="checkbox"/> | <input type="checkbox"/> |
| Understands the requirements and restrictions of the Restricted Approach Boundary  | <input type="checkbox"/> | <input type="checkbox"/> |
| Can name the Restricted Approach Boundary at 120V, 208V, 240V, 480V and the Utility Primary Distribution voltage (i.e., 4160V, 12470V, 13200V) | <input type="checkbox"/> | <input type="checkbox"/> |
| Understands the requirements and restrictions of the Prohibited Approach Boundary  | <input type="checkbox"/> | <input type="checkbox"/> |
| Can name the Prohibited Approach Boundary at 120V, 208V, 240V, 480V and the Utility Primary Distribution voltage (i.e., 4160V, 12470V, 13200V) | <input type="checkbox"/> | <input type="checkbox"/> |

