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-(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 equipment.

(Can use Electrical Safe Working Practices Booklets)

PPE	OK		Not OK
Demonstrates ability to properly test 500V class 00 voltage rated gloves			
Demonstrates ability to properly don 500V class 00 voltage rated gloves (removes conductive articles of clothing)			
Demonstrates ability to properly don Level #0 Arc Flash PPE			
Demonstrates ability to properly don Level #1 Arc Flash PPE			
Demonstrates ability to properly don Level #2 Arc Flash PPE			
Demonstrates ability to properly don Level #3 Arc Flash PPE			
Demonstrates ability to properly don Level #4 Arc Flash PPE			
Insulated tools	OK		Not OK
Demonstrates knowledge of when voltage rated tools are required			
Test equipment	OK		Not OK
Can identify the maximum voltage rating of the multimeter			
Demonstrates ability to inspect test leads and multimeter for defects prior to use			
Demonstrates ability to plugs test leads in correct sockets to read voltage			

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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)

Switchboards and Panelboards	OK		Not OK
Demonstrates ability to identify incoming conductors			
Demonstrates ability to identify bus bars and breakers/ fused disconnect switches			
Demonstrates ability to distinguish energized parts from de-energized parts			
Demonstrates ability to identify Main Lug Only (MLO) from Main Breaker type switchboard or panelboard			
Demonstrates ability to identify which circuit parts remain energized after properly de-energizing Main Breaker or Fused Disconnect Switch			
Fused Disconnect Switches	OK		Not OK
Demonstrates ability to identify incoming conductors			
Demonstrates ability to distinguish energized parts from de-energized parts			
Demonstrates ability to identify which circuit parts remain energized after properly de-energizing Main Breaker or Fused Disconnect Switch			
Motor Starters	OK		Not OK
Demonstrates ability to identify incoming conductors			
Demonstrates ability to identify which circuit parts remain energized after properly de-energizing Breaker or Fused Disconnect Switch			
Demonstrates ability to distinguish energized parts from de-energized parts			
1) Can properly identify contactor and describe its basic operation			
2) Can properly identify overload relay contacts terminations and describe basic operation			
3) Can properly identify primary contacts and terminations (line and load side)			
4) Can properly identify auxiliary contacts and terminations			
5) Can properly identify control power transformer and identify its terminals and operating voltage			
6) Can properly identify coil and identify its terminals and operating voltage			

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

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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)

Task	OK		Not OK
Understands the requirements and restrictions of the Limited Approach Boundary			
Can name the Limited Approach Boundary at 120V, 208V, 240V, 480V and the Utility Primary Distribution voltage (i.e., 4160V, 12470V, 13200V)			
Understands the requirements and restrictions of the Restricted Approach Boundary			
Can name the Restricted Approach Boundary at 120V, 208V, 240V, 480V and the Utility Primary Distribution voltage (i.e., 4160V, 12470V, 13200V)			
Understands the requirements and restrictions of the Prohibited Approach Boundary			
Can name the Prohibited Approach Boundary at 120V, 208V, 240V, 480V and the Utility Primary Distribution voltage (i.e., 4160V, 12470V, 13200V)			

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Qualified Person-1-b(4) Decision-making process necessary to determine the degree and extent of the