#### 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.
- (f) The employer shall determine, through regular supervision or through inspections conducted on at least an annual basis, that each employee is complying with the safety-related work practices required by this standard.

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)		
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		
Demonstrates ability to set meter to correct setting to read AC voltage		
Demonstrates ability to safely read an AC voltage		
Demonstrates ability to plugs test leads in correct sockets to read resistance		
Demonstrates ability to set meter to correct setting to read resistance		
Demonstrates ability to safely read resistance (meaning the circuit must be verified de- energized before proceeding)		
Demonstrates ability to use resistance readings to correctly determine if a fuse is blown		
Demonstrates ability to properly use a clamp-on ammeter to read motor current and interpret results		

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)			
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	
i used disconnect Switches	OIX	NOT OIL	
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			
Can properly identify contactor and describe its basic operation			
2) Can properly identify overload relay contacts terminations and describe basic operation			
Can properly identify primary contacts and terminations (line and load side)			
Can properly identify auxiliary contacts and terminations			
5) Can properly identify control power transformer and identify its terminals and operating voltage			
Can properly identify coil and identify its terminals and operating voltage			

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)			
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		1	

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	Ток	Not OK
Understands the requirements and restrictions of the Limited Approach Boundary	UK.	NOLOK
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)		

Qualified Person-1-b(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.			
(Can use Electrical Safe Working Practices Booklets)			
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Task	OK	Not OK	
Demonstrates ability to read, understand and don the proper PPE as listed on the Arc Flash and Shock Hazard Label			
Demonstrates the ability to determine which tasks require Electrical Energized Work Permits			
Demonstrates how to safely remove an individual from an energized circuit			
Demonstrates how to safely open an electrical disconnect switch			
Demonstrates how to determine if a circuit is de-energized		ו ר	
1) Wears proper PPE		1	
2) Demonstrates proper use of multimeter to measure voltage		] [ ]	
3) Checks for visual indication that disconnect is open		] [	
4) Tests multimeter for proper operation on known energized circuit			
5) Tests each conductor phase to phase			
6) Tests each conductor phase to ground			
7) Tests multimeter for proper operation on known energized circuit			