

Low Voltage Qualified – Refresher

4-Hour Course

PREREQUISITE Completion of e-Hazard *Low Voltage Qualified* 8-hour course

OVERVIEWThis class keeps attendees current on the information gained in the standard Low
Voltage Qualified class. In addition to a review of standard electrical safety principles,
attendees are brought up to date on the changes in the latest edition of the NFPA 70E
Standard for Electrical Safety in the Workplace, which is revised every three years.**REFERENCES**Current NFPA 70E Standard, OSHA Regulations (as applicable)

MATERIALS e-Hazard Low Voltage Qualified Refresher Workbook

Times are approximate;

Example: 8:00 a.m. - 12:30 p.m. (4.5-hour session)

3 – 10-minute breaks

Example	е				
8:00	:10	Introduction1. Electrical Safety Facts/Risks2. Electrical Related Regulations & Standards		:10	 6. Job Planning Elements of Safety Planning Job Briefing Energized Electrical Work Permit
	:40	 Applicable: NFPA 70E/OSHA How Standards Are Used Key Definitions/Issues NFPA 70E Video (:23) (may move to end) 		:30	 7. Risk Assessment Components of Assessment Methods: Tables or Incident Energy Calculations
8:50	:10	BREAK			Labeling
9:00		Electrical Hazards & Protection Strategies 3. Shock Hazards & Protection Strategies			Steps to Determine PPE Required Example
		 Understanding Shock 	11:20	:10	BREAK
	:30	 Variables Impacting Hazard Protection Boundaries Voltage Rated Gloves and Other Shock PPE Rated Insulated Tools and Other Equipment Arc Flash Hazards & Protection Strategies Causes/Types Arc Blast Mitigating Hazard through Engineering Design and Work Methods Arc Flash Boundaries Practical Application 	11:30	:40	 8. Safety Related Work Practices Defining "Electrically Safe Work Condition" Identifying and Securing Boundaries Tools and Equipment Best Practices for Lock Out/Tag Out, Verifying De-energization and LV Grounding Situational Conditions (Overhead, Underground, etc.) Special Equipment Training Administrative Guidelines Recognizing Hazards and Poor Work Practices
10:00	:10	BREAK		:20	 Quiz/Evaluation/Questions
10:10	:40	 5. Arc Rated Personal Protective Equipment Overview Protecting Head, Hands and Feet PPE Programs: Categories, Levels, Systems Environmental Considerations PPE Guidelines and Maintenance 	12:30		END