



## EENS Job Risk Assessment

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Job Step/Task	Hazard	Control(s)	Before Additional Controls					Control(s) Added to Reduce Risk	After Additional Controls						
			Stressor	# of People A	Frequency B	Severity C	Likelihood D		Risk* AxBxCxD	Stressors	# of People A	Frequency B	Severity C	Likelihood D	Risk* AxBxCxD
Troubleshooting, testing Low Voltage, High Current electronic equipment (Range B, C)	Electrocution	2 person rule, proper grounding, approved equipment design, appropriate PPE (NFPA 70E compliant), training, proper CAT meter, work planning, labels, signs & postings, clear work area, Inspections, permits	N	1	2	5	1	10							
	Electrical Shock		N	1	2	1	1	2							
	Reflex injury		N	1	2	2	1	4							
	Arc flash burn		N	1	2	3	1	6							
Troubleshooting, testing circuits (Range B)	Electrocution	Training, proper grounding, approved equipment design, NFPA 70E compliant PPE, proper meter, Permits, labels, signs & postings, work planning	N	1	2	5	1	10							
	Electrical Shock		N	1	2	3	2	12							
	Arc flash burn		N	1	2	2	1	4							
	Reflex injury	(above plus) clear work area, Inspections, work planning	N	1	2	3	2	12							
Troubleshooting, testing circuits (Range C)	Electrocution	Training, proper grounding, approved equipment design, NFPA 70E compliant PPE, proper meter, work planning, labels signs, & postings, permits, LOTO	N	1	2	5	1	10							
	Electrical Shock		N	1	2	4	2	16							
	Arc flash burn		N	1	2	4	1	8							
	Reflex injury	(above plus) clear work area, Inspections, work planning	N	1	2	4	2	16							
Trouble shooting and testing high voltage, low current power supplies (example: ion gauges, vacuum gauges)	Electrocution	Training, LOTO, proper grounding, approved equipment design, proper cables and connectors, LOTO, work planning, labels, signs & postings, permits NFPA 70E compliant PPE	N	1	2	5	1	10							
	Electrical Shock		N	1	2	4	1	8							
	Reflex injury		N	1	2	2	1	4							
De-energizing capacitors	Electrical Shock	Equipment design, training, PPE, labeling/posting, grounding of capacitors in storage, work planning	N	1	1	3	1	3							
	Arc flash burn		N	1	1	4	1	4							
	Reflex injury		N	1	1	2	1	2							

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			Stressor	# of People A	Frequency B	Severity C	Likelihood D		Risk* AxBxCxD	Stressors	# of People A	Frequency B	Severity C	Likelihood D	Risk* AxBxCxD
Testing & troubleshooting equipment in damp locations (Ranges A &B)	Electrocution	Training, proper grounding, approved equipment design, NFPA 70E compliant PPE, proper meter, permits labels, signs & postings, GFCI protection, work planning	Y	1	2	5	2	20							
	Electrical Shock		Y	1	2	3	3	18							
	Arc flash burn		Y	1	2	2	3	8							
	Reflex injury	(above plus) clear work area, Inspections, work planning	Y	1	2	3	3	18							

<b>*Risk:</b>	<b>0 to 20</b>	<b>21 to 40</b>	<b>41-60</b>	<b>61 to 80</b>	<b>81 or greater</b>
	<b>Negligible</b>	<b>Acceptable</b>	<b>Moderate</b>	<b>Substantial</b>	<b>Intolerable</b>

Changes, Rev 1 (Review Team: P. Carr, P. Sullivan, L. Bowerman, W. Brown, P. Philipsberg, R. Webster)  
 Editorial changes; hazards clarified so wording consistent, task 8 reworded  
 Frequency, Task, Risk changed - Task 2 (Verifying de-energized...)  
 Frequency, Task, Risk changed - Task 6 (Troubleshooting, (Range C)...).  
 Stressor, likelihood, risk changed - Task 9 (Testing & troubleshooting...) (ranges A&B) task".