



SUB-PLAN 3: ACCIDENT PREVENTION PLAN

Activity Hazard Analysis (AHA)

Activity/Work Task: Electrical Assessment and Testing	Overall Risk Assessment Code (RAC) (Use highest code)	M				
Project Location: CENTCOM AOR	Risk Assessment Code (RAC) Matrix					
Contract Number: W912DY24R0043	Severity	Probability				
Date Prepared: 01/01/2025		Frequent (F)	Likely (L)	Occasional (O)	Seldom (S)	Unlikely (U)
Prepared by (Name/Title): Glenn Thompson/Project Manager	Catastrophic (C)	E	E	H	H	M
	Critical (Cr)	E	H	H	M	L
Reviewed by (Name/Title): Dwayne Gipson/Program Manager	Marginal (M)	H	M	M	L	L
	Negligible (N)	M	L	L	L	L
Employer/GBU: Versar	Step 1: Review each "Hazard" with identified safety "Controls" and determine RAC (See above) Note: The RAC is determined after implementing the control for listed hazard.					
Notes: (Field Notes, Review Comments, etc.) References:	P "Probability" is the likelihood to cause an incident, near miss, or accident and identified as: Frequent (F), Likely (L), Occasional (O), Seldom (S) or Unlikely (U).				RAC Chart	
	S "Severity" is the outcome/degree if an incident, near miss, or accident did occur and identified as: Catastrophic (C), Critical (Cr), Marginal (M), or Negligible (N)				E = Extremely High Risk	
	Step 2: Identify the RAC (Probability/Severity) as E, H, M, or L for each "Hazard" on AHA. Annotate the overall highest RAC at the top of AHA.				H = High Risk	
					M = Moderate Risk	
					L = Low Risk	

Job Steps	Hazards	Controls	P	S	RAC
1. Gather Tools	1.1 Material Handling	1.1.1 Proper Lifting techniques 1.1.2 Housekeeping practices	S	M	L
2. Open CDP for inspection	2.1 Sharp edges	2.1.1 Adequate hand protection and PPE	S	M	L
3. Test equipment using DMM	3.1 Electric Shock	3.1.1 Proper training in use of test equipment 3.1.2 Energized work permit	S	Cr	M
4. Inspect electrical wiring and components	4.1 Electric Shock	4.1.1 Implement LOTO or Energized work permit	S	Cr	M
	4.2 Arc Flash	4.2.1 Implement LOTO or Energized work permit	S	Cr	M
5. Inspect branch circuit field wiring	5.1 Material Handling / moving equipment / furniture, etc.	5.1.1 Proper lifting techniques	S	M	L
	5.2 Sharp edges	5.2.1 Adequate hand protection and PPE	S	M	L
	5.3 Working from heights	5.3.1 Proper working from heights training	S	M	L
6. Electrical Assessment and Testing	6.1 Dust	6.1.1 Minimize generation of dust. 6.1.2 Stay out of visible dust clouds. 6.1.3 Cover face to eliminate visible dust.	S	M	L



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	6.2 Slips, Trips and Falls	6.2.1 Make sure you have good solid footing and that walking/working surfaces are as clean and dry as possible. 6.2.2 Be cautious in wet and muddy conditions. 6.2.3 Work areas should be inspected daily and findings shall be recorded on daily inspection reports. 6.2.4 Sturdy all leather work boot with traction sole. 6.2.5 Keep unnecessary personnel away from work area.	S	M	L
	6.3 Noise	6.3.1 Wear hearing protection when around loud noises. 6.3.2 Refer to S3AM-118 Hearing Conservation	S	M	L
	6.4 Electrical shock from energized equipment	6.4.1 Do not have wet hands while plugging/unplugging energized equipment. Keep plugs and receptacles out of water unless they are approved for submersion. Protect electrical wire / cords passing through work areas from water and damage. 6.4.2 Lockout and tagout is required if accidental energization could cause injury. 6.4.3 Refer to S3AM-302 Electrical Safety	S	M	L
	6.5 Ergonomics	6.5.1 Do not strain when lifting. 6.5.2 Use proper equipment and/or get help when moving heavy objects. 6.5.3 Bend at the knees; do not use your back. 6.5.4 Keep objects close to your body. 6.5.5 Do not twist. 6.5.6 Do not manual lift more than 50 pounds without assistance.	S	M	L



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	6.6 Hand and Power Tools	6.6.1 Use tools for their intended use only. 6.6.2 Don't use damaged tools. 6.6.3 Be aware of and keep hands and feet out of potential pinch points; wear heavy work gloves. 6.6.4 All tools will be used, inspected, and maintained in accordance with the manufacturer's instructions, and tools will be inspected, tested, and determined to be in safe operating condition prior to each use. 6.6.5 Power tools and equipment will be equipped with a shut-off switch. 6.6.6 All rotating parts will be properly guarded. 6.6.7 Refer to S3AM-305 Hand and Power Tools	S	Cr	M
	6.7 Material Handling	6.7.1 Use mechanical devices to move loads when possible. 6.7.2 Wear protective gloves when handling materials. 6.7.3 Do not strain when carrying or pulling equipment. 6.7.4 Employees should use safe lifting techniques, bending at the knees and lifting with the legs. 6.7.5 Employees should use caution and not twist the back when carrying a load.	S	Cr	M
	6.8 Heat Stress	6.8.1 Make drinking water available to all workers and encourage workers to drink small amounts of water frequently. 6.8.2 Adjust work/rest regimens during hot weather. 6.8.3 Use sun screen. 6.8.4 Avoid consuming caffeine.	S	Cr	M



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		6.8.5 Monitor weather and workers for heat stress symptoms whenever air temperature exceeds 70°F. 6.8.6 Establish a buddy system to watch for signs of heat stress in co-workers. 6.8.7 Allow workers to become acclimatized to working in heat. 6.8.8 Provide cool-off break areas. Ensure workers drink fluids regularly and often. If possible, plan work tasks for cooler morning and evening hours. 6.8.9 Refer to S3AM-113 Heat Stress			RAC
	6.9 Cold Stress	6.9.1 Conduct environmental monitoring when wind chill falls below 20°F. 6.9.2 Monitor weather and workers for cold stress symptoms whenever air temperature drops below 40°F. 6.9.3 Establish a buddy system to watch for signs of cold stress in co-workers. 6.9.4 Allow workers to become acclimatized to working in cold. 6.9.5 Provide warm up break areas. Ensure workers drink warm, sweet drinks or soups to increase their caloric intake and reduce the possibility of cold weather dehydration. 6.9.6 Cold weather clothing and shelter should be provided as needed based on site conditions. 6.9.7 Refer to S3AM-112 Cold Stress	S	Cr	M
	6.10 Biological hazards	6.10.1 Use repellents and barrier clothing for protection against insects (e.g., ticks, mosquitoes); spiders; snakes; and poisonous	S	M	L



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		plants. Barrier clothing includes long-sleeved shirts, pants, and sturdy boots with tape to pants. 6.10.2 Avoid stepping in animal droppings. 6.10.3 Avoid holes and rocks that are potential animal habitats. 6.10.4 If contact with insects, animals, animal droppings, or poisonous plants then wash area immediately. 6.10.5 Notify SSHO for a spider or tick bite. Monitor sting / bite site for allergic reaction. Report symptoms of tick-borne disease to SSHO. 6.10.6 Refer to S3NA 313 - Wildlife Plants and Insects			RAC
	6.11 Extreme weather	6.11.1 When there are warnings or indications of severe weather, monitor conditions and take precautions to protect personnel. 6.11.2 SSHO will monitor conditions and will call a safety stand down in the event of inclement weather.	S	M	L
	6.12 Fire	6.12.1 All storage, handling, and use of flammable liquids will be in accordance with NFPA 30, NFPA 30 A. 6.12.2 All sources of ignition will be prohibited in areas where flammable liquids are stored, handled, and processed. 6.12.3 At least one portable fire extinguisher rated 20-B-C will be provided on vehicles used for transporting and/or dispersing flammable liquids. 6.12.4 Inspect fire extinguishers monthly. 6.12.5 Fire extinguishers must be available in every piece of mobile equipment.	S	Cr	M



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		6.12.6 Worker will guard against any part of their clothing becoming contaminated with flammable liquids. They will not be allowed to work if their clothing becomes contaminated, and they will remove or wet down clothing as soon as possible. 6.12.7 Clear all combustibles away from the work area.			
	6.13 Chemical hazards	6.13.1 Review safety data sheets (SDS). 6.13.2 Follow manufacturer's instructions for use, handling and storage. 6.13.3 Use recommended protective equipment.	S	Cr	M
	6.14 Falls from ladder	6.14.1 Make a visual inspection to ensure that the ladder is safe and sound. 6.14.2 Verify that the top and bottom ends of the ladder are secure. 6.14.3 Verify that the ladder will extend three feet over the landing platform. 6.14.4 Ensure that ladder is free from oil, grease or mud. 6.14.5 Check for proper angle of the ladder (4:2). 6.14.6 Maintain three-point contact. 6.14.7 Do not carry a load on a ladder. 6.14.8 Only one person at a time will use a ladder.	S	Cr	M
	6.15 Hot Work	6.15.1 Clear all combustibles away from the work area. 6.15.2 A fire extinguisher must be available. 6.15.3 Observe work areas for 30 minutes after hot work ("fire watch").	S	Cr	M



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		6.15.4 Refer to S3AM-332 Hot Work			
	6.16 High Altitude	6.16.1 Refer to S3AM-124 High Altitude	S	Cr	M
	6.17 Bloodborne Pathogens	6.17.1 Refer to S3AM-111 Bloodborne Pathogens	S	M	L
Equipment to be Used	Training Requirements/Competent or Qualified Personnel	Inspection Requirements			
Hand and Power Tools Personal Protective Equipment	Task AHA Development and Training Requirement Safety Orientation	Inspect hand tools for excessive wear and loose parts. Inspect daily for broken / damaged parts. Any equipment found defective will be taken out of service and replaced immediately. All Employees are to report unsafe conditions as they are observed to their immediate supervisor and a project safety committee member. Effort should be made to communicate findings to contractor.			