

JOB SAFETY ANALYSIS FOR ANTHRAX SAMPLING

Task Breakdown	Potential Hazards	Critical Safety Practices	Personal Protective Clothing and Equipment
Installation of critical barriers - exterior	Slips, Trips, Falls	<ul style="list-style-type: none"> • Clear walkways, work areas of equipment, tools, carts and debris • Mark, identify, or barricade other obstructions • Clean up liquid spills immediately • Evaluate fall hazards above 4 ft.; use fall protection equipment (harness/lanyard), standard guardrails or other fall protection systems when working on elevated platforms above 6 ft. • Keep cords out of walkways. When this can not be accomplished, they will be taped down. • Watch footing on wet surfaces. 	
	Ladders	<ul style="list-style-type: none"> • Tie-off all straight/extension ladders or manually hold by co-worker at base. • Review Ladder Safety Procedure with workers before work commences • HS302 Inspect ladders before use for mud buildup on treads. • Clean mud from boots before climbing on ladders. • Use 'heavy duty industrial' (type IA) ladders. • Position ladders on even floor surface; check for stability before starting to climb • Follow the three point of contact rule. • Extension ladders must extend 3 feet beyond the top surface. • Do not step above the last two steps on a ladder. • Use an attendant to secure the ladder if it is on uneven ground. • Always work facing the ladder. 	

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	Aerial lifts and elevated platforms	<ul style="list-style-type: none"> • All personnel riding aerial lifts must wear a full body harness and lanyard attached to the aerial lifts anchor point. • Only trained operators are permitted to use aerial lifts • Inspect each lanyard before use. • Personnel operating this equipment will receive on-site training on safe operation. This training will be based on information contained in the operation manual for each machine. • This equipment is not to be operated on polyethylene sheeting. • Equipment will be operated and maintained in accordance with manufacturers recommendations. • Each lift will have a functioning reverse signal alarm. 	
	High Ambient Temperature	<ul style="list-style-type: none"> • Monitor for heat stress in accordance with IT Health and Safety Procedure HS400. • Provide fluids to prevent worker dehydration. • Attempt to identify if anyone is taking a medication that could affect heat stress. 	
	Energized Equipment	<ul style="list-style-type: none"> • Request facility personnel de-energize equipment prior to work. • Do not remove guards around moving equipment unless the equipment is locked out. 	
	Handling Heavy Objects	<ul style="list-style-type: none"> • Observe proper lifting techniques. • Obey sensible lifting limits (60 lb. Maximum per person manual lifting). • Use mechanical lifting equipment (hand carts, trucks) to move large, awkward loads. • Avoid carrying heavy objects above shoulder level. • Avoid actions/activities that contribute to overexertion. • Warm up muscles before engaging in manual lifting activities. • Review lifting posture/techniques regularly at safety meetings. 	

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	Sharp Objects	<ul style="list-style-type: none"> • Wear cut resistant work gloves when sharp edges or objects may cause the possibility of lacerations or other injury. • Maintain all hand and power tools in a safe condition. • Keep guards in place during use. 	
	Electrical Shock	<ul style="list-style-type: none"> • De-energize or shut off utility lines at their source before work begins. • Use double insulated or properly grounded electric power-operated tools. • Provide an equipment-grounding conductor program or employ ground-fault circuit interrupters. • Inspect all extension cords daily for structural integrity, ground continuity, and damaged insulation. • Cover or elevate electric wire or flexible cord passing through work areas to protect from damage. • Keep all plugs and receptacles out of water. • Use approved waterproof, weatherproof type if exposure to moisture is likely. • Inspect all electrical power circuits prior to commencing work. • Follow Lock out-Tag out procedures in accordance with IT Health and Safety Procedures # HS315. 	
	High Noise Levels	<ul style="list-style-type: none"> • Use hearing protection when exposed to excessive noise levels (greater than 85 dBA over an 8-hour work period). 	Ear plugs
	Struck By/ Against Heavy Equipment	<ul style="list-style-type: none"> • Wear reflective warning vests when exposed to vehicular traffic. • Isolate equipment swing areas. • Make eye contact with operators before approaching equipment. Understand and review hand signals. • Follow hand signals of ground workers for equipment manipulation when placing/loading equipment into bucket. • Step away from equipment when adjustments are made. • Do not attempt verbal communication in high noise backgrounds. 	Warning vests, Hard hat, Safety glasses, Steel toe work boots

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	Contact with moving equipment / vehicles	<ul style="list-style-type: none"> • Work area will be barricaded/demarcated • Equipment will be laid out in an area free of traffic flow. • Barriers shall be used to protect workers from vehicular traffic. • Heavy equipment shall have backup alarms. 	
	Equipment failure	<ul style="list-style-type: none"> • Perform daily maintenance inspections on operating equipment. 	
	Burns associated with loading/unloading equipment on trucks	<ul style="list-style-type: none"> • Identify heavy objects for loading that may have hot surfaces. • Allow objects to cool or cover hot surfaces with non-combustible material to protect workers from burns. 	
	Emergency Situations	<ul style="list-style-type: none"> • Identify emergency response providers/hospitals. • Verify emergency numbers and hospital route prior to initiating site activities. • Follow the direction of your DOS representative during an emergency situation within the facility. 	
	Cuts/Scratches	<ul style="list-style-type: none"> • Examine equipment/areas to be decontaminated for signs of damage prior to decontaminating. • Watch for sharp points on machines. • Knife cutting strokes are to be away from the body. 	
	Hazard Communication	<ul style="list-style-type: none"> • Label all containers as to contents and dispose of properly. • Review anthrax Hazard Communication information in SSHP. • Review MSDS's and follow recommended guidelines. 	
	CO accumulation inside containment	<ul style="list-style-type: none"> • At no time will any equipment powered by internal combustion engines be allowed to operate within containment. 	

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	Rooftop Work	<ul style="list-style-type: none"> • The Safety Monitoring system will be used for all roof activities. Personnel working within 6' of a leading edge must be watched by a safety monitor. This area will be outlined using caution tape along the roof edge. The safety monitor will warn workers by voice that they are approaching the edge of a roof. The safety monitor's sole duty is to monitor the roof workers and not get supplies/perform other tasks. The safety monitor must also be within sighting distance of the workers. 	
	Traffic Accidents	<ul style="list-style-type: none"> • Avoid mobile phone use while operating motor vehicles and obey all posted traffic signs, signals, and speed limits. • Pay special attention while backing vehicles. • Facility parking lots and access roads are very active. Park vehicles in areas designated by the facility representative and watch for backing trucks. • Wear seat belts when vehicles are in motion. 	
	Potential Anthrax Exposure	<ul style="list-style-type: none"> • Report any signs or symptoms of anthrax exposure to your supervisor immediately • Dr. Burke of Health Resources shall also be notified immediately @ (800) 350-4511 • Personnel will be offered a prophylactic regimen of antibiotics prior to engaging in decontamination activities. Due to reported levels of contamination, this regime is not mandatory for this decontamination activity. To obtain an antibiotic prescription complete the antibiotics request questionnaire and fax it to Andrew Johnson @ (513) 782-4807. 	
	Pinch Points	<ul style="list-style-type: none"> • Review equipment adjustment procedures, identify pinch points. • Isolate/block pinch points to limit motion when inserting pins, fasteners, closing tackles. • Keep hands, fingers, and feet clear of moving/suspended materials and equipment. • Stay alert at all times. 	

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	Portable electric tools	<ul style="list-style-type: none"> • Portable electric tools that are unsafe due to faulty plugs, damaged cords, or other reasons, shall be tagged (do not use) and removed from service. • All tools shall be protected by a ground fault circuit interrupter (GFCI) device. • Electrical tools shall be inspected daily prior to use. 	
	Extension cords	<ul style="list-style-type: none"> • Extension cords that are unsafe due to faulty plugs, damaged cords, or other reasons, shall be tagged (do not use) and removed from service. • Cords shall be protected from damage from sharp edges, projections, pinch points (doorways), and vehicular traffic. • Cords shall be suspended with a nonconductive support (rope, plastic ties, etc.) when appropriate. • Cords shall be designed for hard duty. • Cords shall be inspected daily. 	
	Lightning Strikes	<ul style="list-style-type: none"> • Whenever possible, halt activities and take cover. • If outdoors, stay low to the ground. • Limit the body surface area that is in contact with the ground. • Seek shelter in a building if possible. • Stay away from windows. • If available, crouch under a group of trees instead of one. • If in a group, keep 6 feet of distance between people. 	