

Job Safety Analysis

Describe Job Step	Potential Hazards	Recommended Risk Control Measures	Responsible Person(s)	Initials	Phase
Machine equipment and tool usage	Injuries from equipment misuse and accidents, including cuts, maiming, hair entanglement, and flying loose material	Wear Personal Protective Equipment (PPE), especially gloves and goggles. Securely fasten material. Keep workspace clear of obstacles such as wires and spare parts. Always wear hair back.	Mechanical Engineer Safety Officer	H.B. L.B.	ROV and system construction
Soldering and electrical work	Inhaling solder fumes, burning from soldering iron or hot solder, electrical shock	Wear Personal Protective Equipment (PPE), especially gloves and goggles. Remain way of soldering iron's position. Place soldering iron in holder when not in use. Solder with ventilation or outside.	Electrical Engineer Safety Officer	S.R.W. L.B.	ROV and system construction
Using glues and sealant chemicals	Inhaling chemical fumes, skin irritation, accidental consumption	Wear Personal Protective Equipment (PPE), especially gloves, goggles, and a face mask. With appropriate chemicals, avoid inhalation through outside or well ventilated usage. Avoid skin contact. Thoroughly wash skin after contact with chemicals.	Mechanical Engineer Electrical Engineer Safety Officer	H.B. S.R.W. L.B.	ROV and system construction
Transportation of ROV systems and equipment	Improperly secured components crashing, back and muscle strain	Secure all components in vehicle or on cart. Lift with care and proper technique.	Safety Officer	L.B.	ROV and system transportation to use sites

Deployment/packing	Tripping on cables, slipping on wet pool concrete, falling into water, air embolism from pneumatic pressurization	Set up in an orderly fashion. Make deliberate motions. Never allow for your center of gravity to go over pool's edge. Personnel should maintain cohesion and stick to assigned tasks. Never cover pressurized air release with any object, especially not body parts.	Mechanical Engineer Safety Officer	H.B. L.B.	Deployment, packing, and usage of ROV and system
Usage of ROV and System	Frying electronics in control system, falling in water	Do not operate ROV with wet hands. Poolside personnel should keep low to the ground. Never allow for your center of gravity to go over pool's edge.	Electrical Engineer Safety Officer	S.R.W. L.B.	Deployment, packing, and usage of ROV and system