

Proven Robotics Job Safety Analysis

Task	Potential Hazard	Control
Deploying the ROV into pool	Slip or lose balance and fall into deep water (drowning)	Ensure deployment area is clear of tripping hazards, wear shoes with good traction, only let arms and hands go in water
Connecting tether to ROV and laptop	Arms or legs could get caught in tether	Ensure all connections are secure, cables are tied off to an anchor point and that there are no loops in the tether large enough to catch limbs
Connect tether to power supply	Electrocution	Ensure power supply is off when tether is being connected and that no one is touching ROV during initial power on
Retrieval of ROV	Muscle strain (particularly back)	Always have at least two people pull ROV from water, kneel down to ensure good lifting posture
Connect pneumatics line to ROV	Over-pressured tank or lines could cause explosion	Pressure relief valve on the pneumatics line to relieve pressure, set max pressure on air compressor to 275 kilopascals

Required Safety Training: Emergency shutdown procedures, proper deployment and retrieval techniques

Required PPE: Safety glasses, closed toed, non-slip shoes