



Job Safety Analysis

ROV Station Setup

Task	Hazard	Control
Unpacking of ROV control panel	Back injury from lifting heavy loads	Use proper lifting techniques and share loads if possible
	Tripping over unpacked materials	Make sure the workplace is clean without litter, setup according to station design with clear duty division, keep an eye on the tether
	Toe and foot injury from dropping items	Ensure a tight hold on ROV before lifting it, wear shoes instead of bare foot
Carrying ROV to the pool side	Back injury from lifting heavy loads	Use proper lifting techniques and ask for helping hands if needed
	Tripping over tether	Keep tether in tight bundle to avoid dangling cable
	Toe and foot injury from dropping ROV	Ensure a tight hold on ROV before lifting it, wear shoes instead of bare foot
Connecting power to ROV	Electric shock	Never handle with wet hands, keep electrical appliances dry, keep metal parts sealed in insulations
Connecting supporting system to ROV	Tripping over wires	Setup according to connection design with clear duty division, keep an eye on the wires
Dry run testing	Electrical fire from damaged components	Inspect all hardware before test, run the propulsion system at low speed
	Poisonous smoke from electrical fire	Test under good ventilation condition
	Hands injury from accidental contact of propeller blades	Warn before testing to raise awareness, label all risk clearly on ROV
Wet run testing	Electric shock	Check overall insulation and waterproofing elements, use fuses
Launching and removing ROV in/from water	Back strain from improper gesture	Kneel and keep back straight, avoid twisting, use proper lifting techniques and share loads if possible
	Wrist injury from lifting heavy	Use proper lifting techniques and share loads if possible
	Slipping and falling on pool side	Wear non-slippery shoes, stay low and keep body down
Transportation of ROV	Impact injury from being hit or running over by cart	Keep the path clean and drive slowly, beware of people suddenly come from other direction
	Tripping on tether or falling of transportation items from cart	Tie things up on the cart to avoid fallen objects, keep an eye on the tether

Required Personal Protection and Trainings

Required Personal Protection Equipment	Non-slippery close-toed shoes, safety gloves and glasses
Required Trainings	IC Safety Training