

Palos Verdes Institute of Technology, Palos Verdes High School
2024 Job Safety Analysis (JSA) for Deck Ops/Launch and Recovery

ENTERING/EXITING THE POOL DECK AREA

TASK	HAZARD	PROTOCOL
Carrying ROV and ROV supplies	Heavy lifting	Always lift ROV with a lifting partner.
		Lift with knees.
		Have clear communication and synchronization with the lifting partner.
	Crushing of fingers	Use handholds when available.
	Dropping heavy objects	Keep the load close to one's body.
		Communicate with the lifting partner.
	Awkward Positioning of body	Communicate with the lifting partner.
		Keep the load close to one's body
	Tripping	Always walk, refrain from running.
		Always know the location of the tether and other tripping hazards.
		Watch where you are going.

SYSTEM SET UP

TASK	HAZARD	PROTOCOL
Setting up the control deck	Shorting of electronics due to water	Keep the control deck at least 6 feet from the pool.
Setting up the tether	Tripping	Inform employees of the location of the tether.
	Electrical shock	Safely plug the tether into the control box.

POWER UP CHECKS

TASK	HAZARD	PROTOCOL
Product Demo	Exposing electrical system to water	Perform the pre-run checklist prior to run.
		Ensure that electronics are waterproof.
Pre-run check	Hand injury	Test claw to ensure proper function.
		Inspect thrusters to see if they are working and clear of obstructions.
	Electrical shock	Check all electrical power connections
		Check that all waterproof seals are secure
Troubleshooting control system	Electrical shock	Turn the power off before troubleshooting any electronics.

POOL SIDE OPERATIONS

TASK	HAZARD	PROTOCOL
ROV operation	Injuring of body parts.	Always wear close toed shoes.
	Claw and hand injury	Alert the pilot when hands are near the claw
	Tripping	Manage tether position.
		Keep passageways clear of objects.
		Always walk, refrain from running.
		Maintain clear communication with all employees.
	Electrical shock	Follow all checklists.
		Keep the extension cord dry.
	Falling in water	Kneel on deck when placing ROV in the water.
		Always walk, never run in the pool area.
Control deck operation	Shorting of electronics	Ensure that the control deck always remains dry.
Supplying props to the ROV	Hands/fingers caught in the claw fingers	Place the prop between claw fingers, ensure all body parts remain clear of the claw, hold object in place as the claw grips it, then release the object and give a thumbs up to the pilot.
Troubleshooting control system	Shock	Turn the power off before troubleshooting any electronics.

SYSTEM BREAKDOWN

TASK	HAZARD	PROTOCOL
Disconnect the power	Electric shock	Turn off all power.
		Safely disconnect tether from the ROV.
		Dry off the ROV.
Put away the tether	Tripping	Roll up the tether carefully. Use 2 people.
Clean the area	Tripping	Remove all props, materials, supplies, tools, and trash from the area.