

CityU Underwater Robotics

Job Safety Analysis (JSA) Form

Task	Hazard	Control
Pre-Launch	Slip/Fall/Trip/Fragment hitting on feet	Wear non-slip footwear Inspect the surfaces to recognize tripping hazard Avoid carrying loads
	Strains from heavy lifting	Never work alone, use proper posture when handling heavy object
Power applied to ROV	Electroshock	Handle electrical appliances with dry hands and use proper insulation to seal; Ensured Main switches and circuit breaker on Surface Control Unit are off; Check that all wires are properly connected, without any unwanted exposure
Launch	Tripping over tether	Proper coiling procedure avoid dangling cable and set up clear duty vision
	Hand/skin injury	Notify all members for thruster test; Label thruster with warning stickers; Ensure all powers are off before contacting the thruster
Post-Launch	Unsafe shutdown	Follow the safety checklist to eliminate any potential hazard
	Back strain and wrist injury	Use proper posture and share loads with others
Required/Recommended Training: Lab Training Session Refer to Safety Operation Checklist of Fronteer 2024		Required Personal Proactive Equipment (PPE): Safety Goggles, Non-slip and covered shoes, Face Shield (If applicable), Ear Muff (If applicable), Life Jacket (if applicable)
Remarks: See Fronteer Technical Documentation for more information on safety measures		
Contributors: Safety Officer, Mechanical Lead, Electronic Lead		Created: January 2024