

MANUFACTURING		
TASK	HAZARDS	CONTROL
Using heavy machinery and hand tools	Physical injury	Use gloves, pay attention to secure the object to be drilled, hammered or similar into a bench vise.
	Eye injury	Use safety goggles, stay at a safe distance from the angle grinder or similar.
	Chips and shavings	Use work overalls when using drill, drill press or angle grinder.
Soldering circuit board and other electronic components	Skin burns	Use the third hand to support the PCB/component to be soldered, use gloves.
	Fire hazards	Always put soldering iron on his soldering station and watch the objects around the station.
	Chemical intoxication	Use gloves when placing solder paste and wash hands after that procedure.
Using Chemicals	Chemical irritation	Use gloves and long sleeves.
	Chemical inhalation	Use M3 filtering masks and operate in a well-ventilated room.
Transporting ROV, control station and all task props	Back injury	Do not lift any heavy objects above the shoulder level and do not lift alone.
	Foot injuries	Use closed footwear, secure ROV and other parts to the cart when transporting.
Coding	Backbone and neck stress	Use ergonomic chairs, set the proper height and the proper screen position and angle.
	Eye stress	Wear anti-blue light goggles, set dark themes and low backlight on the laptop, use multiple screen to enlarge to the maximum all the windows.

Managing and Operating ROV

TASK	HAZARDS	CONTROL
Pre-launch	Slipping	Make sure deck crew wear life jackets and non-slip footwear.
	Electrocution	Wear non-conductive gloves. Make sure there are no bare wires and check for any damaged wires. Use non-conductive tools.
Launching and Retrieving the ROV	Back injury	Do not lift any heavy objects above the shoulder level and do not lift alone.
	Hand Injury	Do not touch thrusters while launching and retrieving Equip thrusters with meshes to cover the propellers. Plant warning stickers on thrusters.
Powering on the ROV	Electrical Failure	Check all electrical connection to prevent a short circuit and check the fuse.
	Wrong Connection	Check the Anderson Connectors polarity.
Tether Management	Tangled tether	Wrap the tether properly, and place everything on transportation cart properly when going to or leaving the pool.
	Tripping on the tether	Make sure tether is laid on the floor without tangling and make sure tether does not block walking path.
ROV Dry Test	Hand Injury	Do not put hands on the motors while in running.