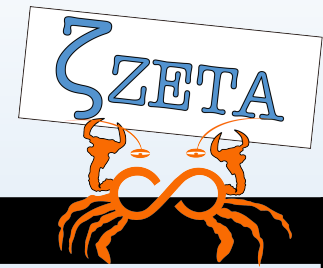


JOB SAFETY ANALYSIS

Safety information for CMA Underwater Expert Ltd.



LAUNCHING THE ZETA

TASK	HAZARDS	CONTROLS
Pre-launch Setting up <i>Zeta</i>	Mild electrical shock or electrocution	<ul style="list-style-type: none"> • Make sure <i>Zeta</i> is placed on a dry location and hands are dry at all times. • Verify power switches and circuit breaker on Tether Control Unit. • Visually inspect the cables and connectors to check if they have been tightened and sealed. • Use the proper personal equipment in accordance with the supply voltage.
	Injury from slipping	Wear non-slip footwear to avoid slipping.
	Injury from tripping on the tether	<ul style="list-style-type: none"> • Inspect pool area for possible trip hazards before launching. • Lay the tether nicely without blocking the way. • Always keep an eye on the tether. • Ensure that the tether is not tangled at all times. • Do not over reach for <i>Zeta</i>.
Launching Operating and Retrieving the <i>Zeta</i>	Back / muscle strain and injury	<ul style="list-style-type: none"> • Avoid sharp twisting movements. • Slightly bend your body forward when loading or unloading <i>Zeta</i>.
	Hand / finger injury	<ul style="list-style-type: none"> • Put warning signs / stickers on the thrusters. • Make sure thrusters are disabled and / or power is shut off to the vehicle before putting hands and fingers near thrusters.
	Sunburn	<ul style="list-style-type: none"> • Wear protective clothing. • Put on sunhat / sunglasses. • Apply sun screen.
	Mild electrical shock or electrocution	<ul style="list-style-type: none"> • Assess for damaged wires / connectors before deploying / retrieving <i>Zeta</i>. • Evaluate the condition of the wires and replace cables when necessary.
Required Training: <ul style="list-style-type: none"> • Loading and uploading procedures • Power checking and set-up procedures • Proper operation of specific tools • (Refer to the 'Safety Checklist' for operating the <i>Zeta</i>) 	Required Personal Protective Equipment (PPE): Covered and non-slip shoes Safety gloves Safety glasses Sun protection	
Other Information: See <i>Zeta</i> Technical Documentation for more information on Safety Measures Contributors: Anderson ZENG, Jayden CHAN, Louise LO, Paul CHOW, Anson ZHAO, Krios LIANG, Kelvin KO, Yang XIAO, Jerry LUM, Devin LAI, Beth NA, Amber LIN Created: SJanuary 2017 For more information about this JSA, contact CMA Underwater Expert Ltd. at CMA Secondary School, 298 Nam Cheong Street, Kowloon, Hong Kong http://www.cmassrobotics.com		