

WhaleTech Robotics

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MATE WORLD COMPETITION 2024

Jobsite Safety Analysis (JSA)

WHALETECH ROBOTICS

NORTH PAULDING HIGH SCHOOL

JSA 2024

Task	Potential Hazards	Potential Consequence	Safety Procedures
Poolside			
Set up pool side station	Heavy objects	Back strain and toe damage	Lift heavy objects with proper form and strong grip
	Moving objects	Finger damage	Careful placement of hands
Connecting additional poolside electrical connections	Electricity	Injury to person(s) or robot	Ensure proper connections before connecting to an external power source
	Tripping Hazards	Injury to person(s) or robot	Properly secure all wiring and cables
Dry test	Malfunctioning components	Electrical shock, burns, fire	Ensure code is running properly before powering robot
	Flying debris	Eye damage	Any potential debris is cleared from the area before powering on
	Extremities obstructing moving components	Extremity damage, damage to robot.	All members stand back from robot with hands off as it is powered on
Submersion of the robot	Water	Drowning	Poolside members will avoid remaining close to the water and must be able to swim
	Moving components	Extremity damage	long hair must be tied up; robot must be handled properly
General operation	Water	Drowning	Avoid standing too close to the water
	Tether	Tripping	Proper tether management
	Moving Components	Extremity damage	Keep hand away from moving components
Retrieval	Water	Drowning	Steady footing while retrieving
	Heavy objects	Drowning, back injury, toe injury	Proper lift form and appropriate grip
System Breakdown	Heavy objects	Back strain and toe damage	Lift heavy objects with proper form and strong grip, store in and organized fashion
	Electricity	Injury to person(s) or robot	Ensure power is turned off before disconnecting any cables or wires
	Moving objects	Finger damage	Careful placement of hands