Pensacola Catholic High School | Crubotics | Jobsite Safety Analysis 2024

	Jobsite Safety Analysis (JSA) **Page: 1**	**Pensacola Catholic High School** **Crubotics 2024** **Building Efficiently** **Restoring Efficiently**

Overall Task: ROV and FLOAT Entrance and Setup

Table: 1.1

Tasks:	Hazards	Controls
1. Enter onto the deck and move equipment and personnel to the deployment site.	1a. Slipping or falling on deck or into the pool. 1b. Dropping Equipment and injury associated with dropping equipment.	1a. Team members wear closed toe shoes with good grip to reduce risk of falling into the pool. Team members will walk at a safe pace to not create any unnecessary risk. 1b. Heavy equipment and hard to carry equipment will be carried by multiple individuals in a safe manner to reduce the risk of injury or dropping equipment.
2. Enter the deck operations area. Unpack gear and prepare for deployment.	2a Injury caused from unpacking ROV and FLOAT equipment. 2b. Lack of communication and causing complacency in injuries and creation of unsafe environments.	2a. Team members will assist each other in removing ROV and FLOAT equipment for operation based on previous assignments for such operations. 2b. The team members have been designated with certain objectives during the setup process. Preplanning this allows for better execution and reduces the amount of communication required.
3. Establish a power supply used for the ROV.	3a. Wires have accidental contact with water. 3b. Physical contact with loose and or damaged wires.	3a. A team member will be assigned the responsibility to make sure that the power supply will be safe from any water or wet items before securing it. 3b. Prior to deployment a team member will do a quick inspection of wires to confirm that there is nothing that is damaged before deployment.

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Overall Task: ROV and FLOAT Deployment

Table: 2.1

Tasks:	Hazards	Controls
1. ROV deployment and poolside operations.	1a. Slipping on deck or falling into a pool. 1b. Miscommunication and difficulty to communicate.	1a. Team members will maintain the same PPE as stated in Table 1.1 Contrals 1a, and also practice on poolside operations with the ROV. 1b. Practice projecting voices for proper communication as well as the use of common terminology to standardize communication.
2. Float deployment	2a Possibility of falling into water when placing a heavy float into water	2a Practice deploying the float along with a secondary float deployer to prevent anyone from falling in
3. Physical contact with ROV during poolside operations.	3a. Injuries may be caused because of contact with ROV or props. 3b. Injury caused by contact with motors being in close proximity to hands	3a. Extensive practice for the tetherman with handling props and the ROV. 3b. Along with 3a, the teatherman will practice techniques to avoid placing hands near motors.

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Overall Task: ROV and FLOAT Breakdown and Exit

Table: 3

Tasks:	**Hazards**	**Controls**
1. Disarm and Retrieve the ROV from the pool	1a. Possibility of retrieval before disarming, leading to live propellers being near the tetherman's hands. 1b. Possibility of tetherman losing balance when retrieving the heavy ROV and falling into the pool.	1a, Proper communication techniques to ensure the ROV is disarmed before hands are put on. 1b. Low risk practice retrieving the ROV from peculiar positions and a requirement that the tetherman be able to pass a baseline swimming test.
2. Retrieve the FLOAT from the poolside.	2a. Possibility of FLOAT engineer losing balance when retrieving the heavy FLOAT and falling into the pool.	2a. Low risk practice retrieving the FLOAT from peculiar positions and a requirement that the FLOAT engineer retrieving the FLOAT be able to pass a baseline swimming test.
3. Securing the power supply.	3a Accidental contact with newly created water conditions.	3a. A team member will be assigned to securing the power, and must ensure that the conditions around the power source are safe before securing power supply.
4. Packing up supplies	4a. Injury involved with packing up ROV and FLOAT, especially after pressure and stress.	4a. Team members will practice both deployment operations as well as familiarization with the backup process to mitigate stress after a ROV deployment.

Table 4

Training Required:	**PPE:**
Table 1 - Overview deck operations and assigned positions. **Table 2:** - Practice deploying the ROV and FLOAT and communicating properly **Table 3:** - Practice and familiarize breakdown operations and preplan them with assigned roles.	**Table 1:** Closed toe shoes with grip and ability to work in wet conditions.