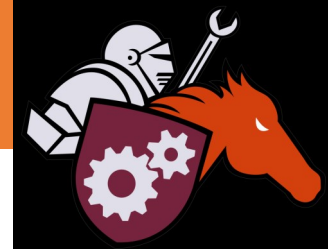
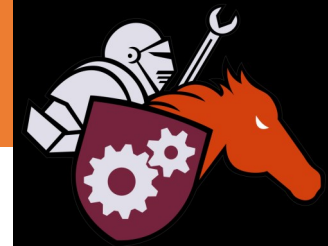


BR Robotics Job Safety Analysis



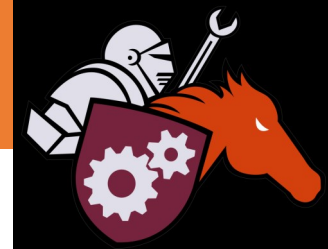
JOB TYPES	POTENTIAL HAZARDS	SAFE JOB PROCEDURES
ROV Setup	<ul style="list-style-type: none">• Short Circuit• ROV Malfunction• Fire• Electrocutation	<ul style="list-style-type: none">• Follow ROV wiring labeling• Remove flammable materials• See "ROV Operation"
ROV Operation <input type="checkbox"/>	<ul style="list-style-type: none">• Fire• Electrocutation• Short Circuit	<ul style="list-style-type: none">• Remove flammable materials• Ensure surge protector is used and functioning• Ensure ROV fuse is functioning• Keep control box in dry location• Minimize splash and spray near control box• Ensure that control box is closed during operation

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JOB TYPES	POTENTIAL HAZARDS	SAFE JOB PROCEDURES
ROV Operation (cont.)	<ul style="list-style-type: none">• ROV Malfunction • Pinch• Cut • Slip • Trip • Drowning	<ul style="list-style-type: none">• Turn off ROV while opening control box or performing maintenance/adjustments• Keep hands and loose clothing away from claw• Keep hands and loose clothing away from motors• Wear grippy shoes• No loose clothing• Keep water on deck to a minimum• Ensure tether "wrangler" is present• Minimize amount of tether on deck• Coil unused tether neatly• Be aware of surroundings• Wear life preserver when appropriate• Designate a "spotter" who keeps a head count of team members and assists team members when

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JOB TYPES	POTENTIAL HAZARDS	SAFE JOB PROCEDURES
ROV Operation (cont.)	<ul style="list-style-type: none">• Muscle/joint injuries	<p>leaning over the water</p> <ul style="list-style-type: none">• Do not operate the ROV in adverse conditions• Use proper lifting technique and/or team lift heavy objects
ROV Teardown and Storage	<ul style="list-style-type: none">• Trip• Slip• Muscle/joint injuries• Electrocution• ROV Damage	<ul style="list-style-type: none">• Properly coil and store tether after use• Grippy footwear• Avoid walking in standing water• Keep water on deck to a minimum• Use proper lifting technique and/or team lift heavy objects• Disconnect power supply first• Properly unplug, coil and store all ROV components and wires