

Company CEO: \_\_\_\_\_

Company Name

Product demonstration station officials: \_\_\_\_\_

<b>Safety</b>
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**Check here if the company has their PASSED safety inspection card**

Companies without their safety inspection PASSED card cannot participate in the product demonstration.

**Check here if tamper seal on fuse is still intact**

Companies with a broken tamper seal on their fuse must see the safety inspectors before their ROV enters the water.

**Check here if the company presented you with a JSA (Job Safety Analysis)**

<b>Organizational and Operational Effectiveness (up to 10 points)</b>	Points	
<b>Up to 4 points - Teamwork/Collaboration &amp; Communication</b>		
Chain of command evident	0	1
Roles clear and executed well	0	1
Composure under pressure	0	1
Supportive of each other and communicate well with each other	0	1
<b>Up to 2 points - Project Management</b>		
Task plan is well thought out to maximize score	0	1
Alternate plans available and all team members are aware of the plan	0	1
<b>Up to 2 points - Problem Solving &amp; Ability to Deal with Obstacles</b>		
Awareness of time	0	1
Adjusting timeline to adapt to situations	0	1
<b>Up to 2 points - System Design &amp; Control/Electrical</b>		
ROV deployed by the end of the 5-minute set-up period	0	1
ROV is under control of pilot and prepared to perform tasks	0	1
<b>Total Organizational and Operational Effectiveness (out of 10)</b>		<b>Total</b>

<b>Bonus points for weight</b>	Points		
<b>Weight bonus (up to 10 points)</b>	0	5	10
ROV is less than 18 kg – 10 bonus points			
ROV is between 18.01 kg and 25 kg – 5 bonus points			
ROV is between 25.01 kg and 35 kg – 0 bonus points			
Vehicles heavier than 35 kg may not compete			
	<b>Judge initials:</b> _____		<b>Total</b>
	<b>CEO initials:</b> _____		

**Fuses:** ROV systems are allowed one replacement fuse during the product demonstration. In the event that the ROV system blows the second fuse during the demonstration, time will stop, the demonstration run will be over, and no additional points will be earned. Companies should have adequate replacement fuses on hand, MATE will not provide replacements.



<p><b>2.4 up to 15 points - Monitor and protect seagrass habitat</b></p> <p><b>5 points</b> – compare images to determine recovery of a seagrass bed</p> <p><b>10 points</b> – install an Eco-Mooring system to protect habitat</p>	<p>0      5</p> <p>0      10</p>	
<p><b>2.5 up to 30 points - Reintroduce endangered native Northern Redbelly Dace fry</b></p> <p><b>5 points each, 10 points total</b> – search two potential sites for invasive predatory fish species to determine which one is safe for release</p> <p><b>5 points</b> – transport the fry to the safe release area</p> <p><b>5 points</b> – allow the fry to acclimate to local conditions</p> <p><b>10 points</b> – release the fry</p>	<p>0    5    10</p> <p>0      5</p> <p>0      5</p> <p>0      10</p>	
<p><b>2.6 up to 30 points - Ensure the health and safety of Dillon Reservoir</b></p> <p><b>10 points</b> – inspect the buoy ropes for damage</p> <p><b>5 points</b> – determine the lift capability of your ROV</p> <p><b>10 points</b> – lift the container</p> <p><b>5 points</b> – return the container to the surface, side of the pool</p>	<p>0      10</p> <p>0      5</p> <p>0      10</p> <p>0      5</p>	
<p><b>2.7 up to 20 points - Monitor endangered Lake Titicaca giant frogs</b></p> <p><b>10 points</b> – fly a transect</p> <p><b>5 points</b> – count the number of frogs</p> <p><b>5 points</b> – install a long term camera into a designated area</p>	<p>0      10</p> <p>0      5</p> <p>0      5</p>	
<p><b>Total Task # 2 (out of 170)</b></p>		<p style="text-align: center;"><b>Total</b></p>

<p><b>Task # 3: MATE Floats! 2023 (up to 60 points)</b></p>	<p>Points</p>	
<p><b>3.1 up to 60 points – MATE Floats!</b></p> <p><b>5 points</b> – prior to the competition, building an operational vertical profiling float</p> <p><b>10 points</b> – float communicates with mission station prior to descending</p> <p>o <b>up to 50 points</b> – float completes vertical profiles</p> <p style="padding-left: 20px;"><b>10 points</b> – float completes first vertical profile</p> <p style="padding-left: 20px;"><b>10 points</b> – float communicates to mission station after vertical profile</p> <p style="padding-left: 20px;"><b>10 points</b> – float completes second vertical profile</p> <p style="padding-left: 20px;"><b>15 points</b> – float communicates to mission station after vertical profile</p>	<p>0      5</p> <p>0      10</p> <p>0      10</p> <p>0      10</p> <p>0      10</p> <p>0      15</p>	
<p><b>Total Task # 3 (out of 60)</b></p>		<p style="text-align: center;"><b>Total</b></p>

<b>Penalty Points (deduct 5 points for each infraction)</b>	No. of Infractions	
<b>Safety:</b> Product demonstration officials may deduct points for safety violations. Minor violations are a 5 point penalty. Major violations may be 10 or more points. Product demonstration officials may also disqualify a company for extreme safety violations. <b>Note: An official's decision to disqualify a company due to safety concerns is final. If there is a safety concern, please contact the lead safety inspector or competition coordinator.</b>		
<b>Tether Pulling:</b> Company members cannot pull on the tether to assist in moving or turning the vehicle. Judges should issue a warning for the first infraction and begin deducting points AFTER the first infraction.	a	
<b>Illegal communication:</b> Company members at the side of the pool may not communicate visual evidence of the ROV status such as location of vehicle, need to turn, that the vehicle is stuck, etc.	b	
<b>Debris:</b> Companies that leave debris (e.g. parts of their ROV, including weights and flotation) in the pool at the end of the product demonstration time, or leave debris that a diver must retrieve will receive penalty points. Product demonstration props are NOT considered debris. A company constructed collection basket is considered debris if it is still in the water, not under control of the ROV, when product demonstration time ends.	c	
<b>Diver Assistance:</b> Any diver assistance (if available) must be requested by the company and will result in a 5 point penalty. The clock does not stop during diver assistance.	d	
<b>Total Penalty Points</b>	(total a + b + c + d ) plus safety violations	<b>Total</b>
	<input type="text"/> X 5 =	<input type="text"/>

<b>TIME BONUS (1 point for every minute and 0.01 point for every second under 15 minutes)</b>	
Duration of Product Demonstration: _____	
Minutes under 15 remaining: _____ X 1 point = _____	
Seconds remaining: _____ X 0.01 point = _____	
<b>Time bonus</b>	<b>Total</b>
	<input type="text"/>

<b>TOTAL PRODUCT DEMONSTRATION SCORE</b>	<b>Grand Total</b>
	<input type="text"/>

Official's initials: \_\_\_\_\_

Company CEO's initials: \_\_\_\_\_