

Company CEO: _____

Company Name

Product demonstration station officials: _____

Safety

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)

Organizational and Operational Effectiveness (up to 10 points)	Points	
Up to 4 points - Teamwork/Collaboration & Communication		
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
Up to 2 points - Project Management		
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
Up to 2 points - Problem Solving & Ability to Deal with Obstacles		
Awareness of time	0	1
Adjusting timeline to adapt to situations	0	1
Up to 2 points - System Design & Control/Electrical		
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
Total Organizational and Operational Effectiveness (out of 10)		Total

Bonus points for weight	Points		
Weight bonus (up to 10 points)	0	5	10
ROV is less than 15 kg – 10 bonus points			
ROV is between 15.01 kg and 20 kg – 5 bonus points			
ROV is between 20.01 kg and 25 kg – 0 bonus points			
Vehicles heavier than 25 kg may not compete			
	Judge initials: _____		Total
	CEO initials: _____		

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.

<ul style="list-style-type: none"> o up to 20 points – probiotics <ul style="list-style-type: none"> 10 points – place a tent over the diseased area of coral 5 points – insert a syringe filled with "probiotic" fluid into the port 5 points – inject a "probiotic" fluid into the tent 	0	10	0	5	0	5
2.4 up to 15 points - Monitor and protect seagrass habitat <ul style="list-style-type: none"> 5 points – compare images to determine recovery of a seagrass bed 10 points – install an Eco-Mooring system to protect habitat 	0	5	0	10		
2.5 up to 30 points - Reintroduce endangered native Northern Redbelly Dace fry <ul style="list-style-type: none"> 5 points each, 10 points total – search two potential sites for invasive predatory fish species to determine which one is safe for release 5 points – transport the fry to the safe release area 5 points – allow the fry to acclimate to local conditions 10 points – release the fry 	0	5	10			
<ul style="list-style-type: none"> 5 points – transport the fry to the safe release area 5 points – allow the fry to acclimate to local conditions 10 points – release the fry 	0	5		5		
<ul style="list-style-type: none"> 10 points – release the fry 	0	10				
2.6 up to 30 points - Ensure the health and safety of Dillon Reservoir <ul style="list-style-type: none"> 10 points – inspect the buoy ropes for damage 5 points – determine the lift capability of your ROV 10 points – lift the container 5 points – return the container to the surface, side of the pool 	0	10	0	5	0	10
<ul style="list-style-type: none"> 5 points – return the container to the surface, side of the pool 	0	5				
2.7 up to 20 points - Monitor endangered Lake Titicaca giant frogs <ul style="list-style-type: none"> 10 points – fly a transect 5 points – count the number of frogs 5 points – install a long term camera into a designated area 	0	10	0	5	0	5
Total Task # 2 (out of 170)						Total

Task # 3: MATE Floats! 2023 (up to 60 points)	Points					
3.1 up to 60 points – MATE Floats! <ul style="list-style-type: none"> 5 points – prior to the competition, building an operational vertical profiling float 10 points – float communicates with mission station prior to descending o up to 50 points – float completes vertical profiles <ul style="list-style-type: none"> o up to 10 points – float completes 1st vertical profile <ul style="list-style-type: none"> 10 points – float completes 1st profile using a buoyancy engine or 5 points – float completes 1st profile not using a buoyancy engine 10 points – float communicates to mission station after vertical profile o up to 10 points – float completes 2nd vertical profile <ul style="list-style-type: none"> 10 points – float completes 2nd profile using a buoyancy engine or 5 points – float completes 2nd profile not using a buoyancy engine 15 points – float communicates to mission station after vertical profile 	0	5	0	10	0	5
<ul style="list-style-type: none"> 10 points – float communicates to mission station after vertical profile 	0	10				
<ul style="list-style-type: none"> 10 points – float completes 2nd vertical profile <ul style="list-style-type: none"> 10 points – float completes 2nd profile using a buoyancy engine or 5 points – float completes 2nd profile not using a buoyancy engine 15 points – float communicates to mission station after vertical profile 	0	5	10			
<ul style="list-style-type: none"> 15 points – float communicates to mission station after vertical profile 	0	15				
Total Task # 3 (out of 60)						Total

Penalty Points (deduct 5 points for each infraction)	No. of Infractions		
Safety: 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. 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.			
Tether Pulling: 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		
Illegal communication: 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		
Debris: 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		
Diver Assistance: 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		
Total Penalty Points	(total a + b + c + d) plus safety violations	Total	
	X 5 =		

TIME BONUS (1 point for every minute and 0.01 point for every second under 15 minutes)			
Duration of Product Demonstration: _____			
Minutes under 15 remaining: _____ X 1 point = _____			
Seconds remaining: _____ X 0.01 point = _____			
Time bonus	Total		

TOTAL PRODUCT DEMONSTRATION SCORE	Grand Total
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Official's initials: _____

Company CEO's initials: _____