

Company CEO: _____

Company Name

Product demonstration station officials: _____

Safety Check and Set-Up (up to 10 points)	Points	
Company presents signed safety inspection sheet.	0	5
Vehicle and control system present no safety hazards.	0	5
Examples: <ul style="list-style-type: none"> o All power cords, power bars, pressurized cylinders, etc. are secured. o No hazardous materials are leaking onto the pool deck. o Vehicle is hand-launched by team members in a safe manner. 		
Company is cleared for demonstration: _____ (official's initials)		
Total Safety Check and Set-Up (out of 10)		
<i>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.</i>		

Total

Bonus points for size	Points		
Size bonus (up to 10 points)	0	5	10
ROV is less than 40 cm – 10 bonus points			
ROV is within 40.1 cm and 48 cm – 5 bonus points			
ROV is greater than 48.1 cm – 0 bonus points			
	Judge initials: _____		
	CEO initials: _____		

Total

Fuses: If a vehicle blows the MATE power supply in-line fuse, the company is allowed one spare. If the vehicle blows the second MATE fuse, the product demonstration performance period is over. The company will receive points for the product demonstration tasks that they have completed up to that point but will not receive a time bonus score.

Penalty Points:

Tether Pulling: Companies may not pull on the tether to retrieve the vehicle more quickly or tow steer the vehicle. Issue a warning for the first infraction. Begin deducting points AFTER the first infraction.

Debris: Companies that leave debris (e.g. parts of their ROV, including weights and flotation) in the pool such that a diver must retrieve the debris will receive penalty points. Product demonstration props are NOT considered debris. A company constructed collection basket is considered debris.

Diver assistance: Contact your regional coordinator about diver availability at your regional competition. Any diver assistance must be requested by the company. Diver assistance will result in a 5 point penalty per assist.

Task # 1: Commerce: Hyperloop Construction (up to 50 points)	Points			
Judges' Notes: Companies must complete the steps of this task in order and cannot skip any steps.				
1.1 20 points – installing the frame into the baseplate	0		20	
1.2 15 points – transporting and positioning the hose for pouring concrete	0		15	
1.5 up to 15 points (5 points each) – retrieving the three positioning beacons and returning them to the surface	0	5	10	15
Total Task # 1 (out of 50)				Total

Task # 2: Entertainment: Light and Water Show Maintenance (up to 50 points)	Points	
Judges' Notes: The first four steps of this task must be done in order. Step 5, returning the old fountain to the surface can be done at any time after removing it from the platform.		
2.1 10 points – turning the valve to stop the flow of water to the platform	0	10
2.2 10 points – removing the old fountain	0	10
2.3 10 points – installing the new fountain	0	10
2.4 10 points – turning the valve to restore the flow of water to the platform	0	10
2.5 10 points – returning the old fountain to the surface, side of the pool	0	10
Total Task # 2 (out of 50)		Total

Task # 3: Health: Environmental Cleanup (up to 50 points)	Points		
Judges' Notes: Companies must collect samples before placing the cap over the contaminated area, although they can return samples to the surface after capping.			
3.1 5 points – removing a sediment sample from the bottom	0		5
3.2 10 points – returning a sediment sample to the surface, side of the pool	0		10
3.3 up to 10 points (5 points each) – removing two clams from the bottom	0	5	10
3.4 up to 10 points (5 points each) – returning two clams to the surface, side of the pool	0	5	10
3.5 15 points – placing a cap over the contaminated area	0		15
Total Task # 3 (out of 50)			Total

Task # 4: Safety: Risk Mitigation (up to 50 points)	Points				
Judges' Notes: Companies may complete the steps of Task #4 in any order.					
4.1 up to 40 points (10 points each) – locating each cargo container and using a magnetic reed switch to activate the RFID	0	10	20	30	40
4.2 up to 10 points (5 points each) – deploying a marker into the two highest-risk cargo containers	0	5	10		
Total Task # 4 (out of 50)					Total

Penalty Points (deduct 5 points for each infraction)	No. of Infractions	
Illegal Tether pulling: Issue a warning for the first infraction. Begin deducting points AFTER the first infraction.	a	
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 also receive penalty points. Product demonstration props are NOT considered debris. A company constructed collection basket is considered debris.	b	
Diver Assistance: Diver assistance may or may not be available during regional product demonstration time. Any diver assistance will result in a 5 point penalty.	c	
Total Penatly Points	(total a + b + c)	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 = _____		Total
Time bonus		

TOTAL PRODUCT DEMONSTRATION SCORE	Grand Total
--	--------------------

Official's initials: _____

Company CEO's initials: _____