

2025 MATE ROV COMPETITION TECHNICAL DOCUMENTATION SCORING REQUIREMENTS - NAVIGATOR

Overall Report	
Max Points: 44 Weight: 15%	
Document Specifications	
Document met requirements: length no more than 10 pages, inclusive of SID, safety checklist, and all appendices.	This scale applies only to first two
Font size of at least 12 points, used Times New Roman, Arial, or Calibri font, all measurements were in SI units	questions. See Rubric for the
(except things traditionally specified in other units, e.g. PVC diameter)	remainder of the questions.
Note: Linked or attached documents will not be judged as part of the technical report score.	All 4 requirements met = 4 points
Title page met the following content requirements: (1) company name, (2) organization/school name and location	3 requirements met = 3 points
(city, state, country), (3) team members and their roles, (4) and mentor name(s)	2 requirements met = 2 points 1 requirement met = 1 point
Abstract provided clear, concise summary of work in 150 words or less	
Use of Images and Data	
Photo of complete vehicle was included	
Effective use of photos and sketches to capture the vehicle's design features	
Photos accompanied by appropriate captions	
Sketches used sensible labeling of symbols, dimensions, and components	
Document Design	
Thorough attention to grammar and spelling	
Document presented a professional view of the company	
Acknowledgements and References	
Document provided a properly documented list of references - books, journals, web sites, etc. used as sources; docu	mented contributions of companie
individuals who contributed funds, equipment, and/or technical/moral support	
Document provided adequate acknowledgement of contributions of companies and individuals that contributed f	unds, equipment, and/or other
support to the team	
Teamwork	
Max Points: 12 Weight: 10%	
Project Management	
Included a description of the company (overview or company profile) and personnel (individual members and their	roles and responsibilities)
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System Integration Diagram (SID)	
Max Points: 1 Weight: 5%	
System Integration Diagrams SID was included with the report	
Note: Pre-competition safety inspectors will review and score in greater detail	
Safety	
Max Points: 12 Weight: 10%	
Content	
Described the safety rationale, including how it covers personnel, equipment, and operational safety	
Highlighted safety features and other vehicle-specific safety precautions related to tasks	
Safety Procedures	
Document included a checklist for construction and operation	
Critical Analysis	
Max Points: 8 Weight: 10%	
Testing and Troubleshooting	
Described how the fully assembled vehicle was tested	
Described troubleshooting strategies and techniques used	
Accounting	
Max Points: 12 Weight: 10%	
Budget	
Thorough and accurate description of budget planning and following [Cost provided in USD]	
A clear distinction was made between items purchased, re-used, and donated	
All donations (items, services, and time) were acknowledged [Financial donations provided in USD]	
Discretionary Points	
Max Points: 8 Weight: 100%	
Document described exceptional design of vehicle, sensors, instruments, software, tools or other features	
Other (explanation/example is required in comments)	
Deductions	
Min Points: -8 Weight: 100%	
Evidence that the work was performed by coaches, mentors, parents, or other non-team members	
Significant overuse of commercial or reused components without adequate justification	
Final Score	
Max Points: 50 + Disretionary & Deductions	
SCORING RUBRIC - ALL QUESTIONS (Except Discretionary & Deductions)	
Missing: Not included, can't evaluate	0
Needs Work: Effort made, meets some key requirements. Understanding or treatment of key requirements needs	0
more depth. Judges had to question deeply to find answers.	1
Partially Meets Requirement: Response demonstrates understanding and addresses most key requirements.	2
Simple prodding from judges encouraged team to answer.	<u>د</u>
Meets Requirement: Response demonstrates thorough understanding and addresses all key requirements.	3
Team addressed topic without prompting.	
Exceeds Requirement: Response extends beyond key requirements, demonstrating exceptional depth and	4
breadth of understanding SCORING RUBRIC - DISCRETIONARY POINTS	
Novelty, Depth of Understanding, Depth of Analysis, Effectiveness (functions as intended), Quality of I	0
None Minor	0
Fair	2
Good	3
Extraordinary	4
SCORING RUBRIC - DEDUCTIONS	
Extent to which team relied on outside help, existing work and/or purchased components and	services
None	0
Minor	1
Fair	2
Medium	B ast Modified: 2/25/2025
Extreme	4 Page 2 of 2