

Devon Moore
MET 330
Dr. Ayala
October 23, 2021

Group 7 Peer Review

Peer-review report guidelines

1) Following the scale provided, evaluate if the group completed the assigned tasks on this progress report.

0 points Did not complete them

40 points Less than half of the tasks completed

70 points More than half of the tasks completed but not all

100 points All task completed

GRADE1 = **100**

What did they miss? **Each task was addressed**

2) Follow the task rubric to assess each of the assigned tasks. Write the scores on the rubrics per each task and submit them. Using your grades per tasks, provide the average grade:

Task Rubric				
Task 1	Exceeds Standard 100 points	Meets Standard 70 points	Approaches Standard 40 points	Needs Attention 0 points
1. Purpose 5%	The purpose of the section to be answered is clearly identified and stated. ✓	The purpose of the section to be answered is identified, but is stated in a somewhat unclear manner.	The purpose of the section to be answered is partially identified, and is stated in a somewhat unclear manner.	The purpose of the section to be answered is erroneous or irrelevant.
2. Drawings & Diagrams 10%	Clear and accurate diagrams are included and make the section easier to understand. Diagrams are labeled neatly and accurately. ✓	Diagrams are included and are labeled neatly and accurately.	Diagrams are included and are labeled.	Needed diagrams are missing OR are missing important labels.
3. Sources 5%	Several reputable background sources were used and cited correctly. ✓	A few reputable background sources are used and cited correctly.	A few background sources are used and cited correctly, but some are not reputable sources.	Background sources are cited incorrectly.
4. Design considerations (safety, cost, etc) 10%	Design is carried out with applicable assumptions and full attention to safety and cost, etc. ✓	Design is generally carried out with assumptions and attention to safety, cost, etc.	Design is carried out with some assumptions and some attention to safety, cost, etc.	Assumptions, safety and cost were ignored in the design.
5. Data and variables 5%	All data and variables are clearly described with all relevant details. The units of all values are shown. ✓	All data and variables are clearly described with most relevant details.	Most data and variables are clearly described with most relevant details.	Data and variables are not described OR the majority lack sufficient detail.
6. Procedure 25%	Procedure is described in clear steps. The step description is in a complete and easy to understand short paragraph. ✓	Procedure is described in clear steps but the step description is not in a complete short paragraph. ✓	Procedure is described in clear steps. The step description is in a complete short paragraph but it is difficult to understand.	Procedure is not described in clear steps at all.
7. Calculations 20%	All calculations are shown and the results are correct and labeled appropriately. The units of all values are shown. ✓	Some calculations are shown and the results are correct and labeled appropriately.	Some calculations are shown and the results labeled appropriately.	No calculations are shown OR results are inaccurate or mislabeled.
8. Summary 5%	Summary describes the design, the relevant information and some future implications. ✓	Summary describes the design and some relevant information.	Summary describes the design.	No summary is written.
9. Materials 5%	All materials used in the design are clearly and accurately described. ✓	Almost all materials used in the design are clearly and accurately described.	Most of the materials used in the design are clearly and accurately described.	Many materials are described inaccurately OR are not described at all.
10. Analysis 10%	The design is discussed and analyzed. Argumentative predictions are made about what might happen in case of change in the operation and how the design could be change. ✓	The design is discussed and analyzed. Argumentative predictions are made about what might happen in case of change in the operation.	The design is discussed and analyzed. No argumentative predictions are made about what might happen in case of change in the operation and how the design could be change.	The design is not discussed and analyzed.

Task 1 = 92.5

Task Rubric

Task 2	Exceeds Standard 100 points	Meets Standard 70 points	Approaches Standard 40 points	Needs Attention 0 points
1. Purpose 5%	The purpose of the section to be answered is clearly identified and stated. ✓	The purpose of the section to be answered is identified, but is stated in a somewhat unclear manner.	The purpose of the section to be answered is partially identified, and is stated in a somewhat unclear manner.	The purpose of the section to be answered is erroneous or irrelevant.
2. Drawings & Diagrams 10%	Clear and accurate diagrams are included and make the section easier to understand. Diagrams are labeled neatly and accurately.	Diagrams are included and are labeled neatly and accurately.	Diagrams are included and are labeled.	Needed diagrams are missing OR are missing important labels. ✓
3. Sources 5%	Several reputable background sources were used and cited correctly. ✓	A few reputable background sources are used and cited correctly.	A few background sources are used and cited correctly, but some are not reputable sources.	Background sources are cited incorrectly.
4. Design considerations (safety, cost, etc) 10%	Design is carried out with applicable assumptions and full attention to safety and cost, etc. ✓	Design is generally carried out with assumptions and attention to safety, cost, etc.	Design is carried out with some assumptions and some attention to safety, cost, etc.	Assumptions, safety and cost were ignored in the design.
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7. Calculations 20%	All calculations are shown and the results are correct and labeled appropriately. The units of all values are shown.	Some calculations are shown and the results are correct and labeled appropriately.	Some calculations are shown and the results labeled appropriately.	No calculations are shown OR results are inaccurate or mislabeled. ✓
8. Summary 5%	Summary describes the design, the relevant information and some future implications.	Summary describes the design and some relevant information.	Summary describes the design.	No summary is written. ✓
9. Materials 5%	All materials used in the design are clearly and accurately described. ✓	Almost all materials used in the design are clearly and accurately described.	Most of the materials used in the design are clearly and accurately described.	Many materials are described inaccurately OR are not described at all.
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Task Rubric

Task 3	Exceeds Standard 100 points	Meets Standard 70 points	Approaches Standard 40 points	Needs Attention 0 points
1. Purpose 5%	The purpose of the section to be answered is clearly identified and stated. ✓	The purpose of the section to be answered is identified, but is stated in a somewhat unclear manner.	The purpose of the section to be answered is partially identified, and is stated in a somewhat unclear manner.	The purpose of the section to be answered is erroneous or irrelevant.
2. Drawings & Diagrams 10%	Clear and accurate diagrams are included and make the section easier to understand. Diagrams are labeled neatly and accurately.	Diagrams are included and are labeled neatly and accurately.	Diagrams are included and are labeled.	Needed diagrams are missing OR are missing important labels. ✓
3. Sources 5%	Several reputable background sources were used and cited correctly. ✓	A few reputable background sources are used and cited correctly.	A few background sources are used and cited correctly, but some are not reputable sources.	Background sources are cited incorrectly.
4. Design considerations (safety, cost, etc) 10%	Design is carried out with applicable assumptions and full attention to safety and cost, etc. ✓	Design is generally carried out with assumptions and attention to safety, cost, etc.	Design is carried out with some assumptions and some attention to safety, cost, etc.	Assumptions, safety and cost were ignored in the design.
5. Data and variables 5%	All data and variables are clearly described with all relevant details. The units of all values are shown. ✓	All data and variables are clearly described with most relevant details.	Most data and variables are clearly described with most relevant details.	Data and variables are not described OR the majority lack sufficient detail.
6. Procedure 25%	Procedure is described in clear steps. The step description is in a complete and easy to understand short paragraph. ✓	Procedure is described in clear steps but the step description is not in a complete short paragraph.	Procedure is described in clear steps. The step description is in a complete short paragraph but it is difficult to understand.	Procedure is not described in clear steps at all.
7. Calculations 20%	All calculations are shown and the results are correct and labeled appropriately. The units of all values are shown. ✓	Some calculations are shown and the results are correct and labeled appropriately.	Some calculations are shown and the results labeled appropriately. ✓	No calculations are shown OR results are inaccurate or mislabeled.
8. Summary 5%	Summary describes the design, the relevant information and some future implications. ✓	Summary describes the design and some relevant information.	Summary describes the design.	No summary is written.
9. Materials 5%	All materials used in the design are clearly and accurately described. ✓	Almost all materials used in the design are clearly and accurately described.	Most of the materials used in the design are clearly and accurately described.	Many materials are described inaccurately OR are not described at all.
10. Analysis 10%	The design is discussed and analyzed. Argumentative predictions are made about what might happen in case of change in the operation and how the design could be change.	The design is discussed and analyzed. Argumentative predictions are made about what might happen in case of change in the operation.	The design is discussed and analyzed. No argumentative predictions are made about what might happen in case of change in the operation and how the design could be change.	The design is not discussed and analyzed. ✓

Task Rubric

Task 4	Exceeds Standard 100 points	Meets Standard 70 points	Approaches Standard 40 points	Needs Attention 0 points
1. Purpose 5%	The purpose of the section to be answered is clearly identified and stated. ✓	The purpose of the section to be answered is identified, but is stated in a somewhat unclear manner.	The purpose of the section to be answered is partially identified, and is stated in a somewhat unclear manner.	The purpose of the section to be answered is erroneous or irrelevant.
2. Drawings & Diagrams 10%	Clear and accurate diagrams are included and make the section easier to understand. Diagrams are labeled neatly and accurately. ✓	Diagrams are included and are labeled neatly and accurately.	Diagrams are included and are labeled.	Needed diagrams are missing OR are missing important labels.
3. Sources 5%	Several reputable background sources were used and cited correctly. ✓	A few reputable background sources are used and cited correctly.	A few background sources are used and cited correctly, but some are not reputable sources.	Background sources are cited incorrectly.
4. Design considerations (safety, cost, etc) 10%	Design is carried out with applicable assumptions and full attention to safety and cost, etc. ✓	Design is generally carried out with assumptions and attention to safety, cost, etc.	Design is carried out with some assumptions and some attention to safety, cost, etc.	Assumptions, safety and cost were ignored in the design.
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7. Calculations 20%	All calculations are shown and the results are correct and labeled appropriately. The units of all values are shown. ✓	Some calculations are shown and the results are correct and labeled appropriately.	Some calculations are shown and the results labeled appropriately.	No calculations are shown OR results are inaccurate or mislabeled.
8. Summary 5%	Summary describes the design, the relevant information and some future implications. ✓	Summary describes the design and some relevant information.	Summary describes the design.	No summary is written.
9. Materials 5%	All materials used in the design are clearly and accurately described. ✓	Almost all materials used in the design are clearly and accurately described.	Most of the materials used in the design are clearly and accurately described.	Many materials are described inaccurately OR are not described at all.
10. Analysis 10%	The design is discussed and analyzed. Argumentative predictions are made about what might happen in case of change in the operation and how the design could be change. ✓	The design is discussed and analyzed. Argumentative predictions are made about what might happen in case of change in the operation.	The design is discussed and analyzed. No argumentative predictions are made about what might happen in case of change in the operation and how the design could be change.	The design is not discussed and analyzed.

Task 4 = 100

Task Rubric

Task 5	Exceeds Standard 100 points	Meets Standard 70 points	Approaches Standard 40 points	Needs Attention 0 points
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2. Drawings & Diagrams 10%	Clear and accurate diagrams are included and make the section easier to understand. Diagrams are labeled neatly and accurately.	Diagrams are included and are labeled neatly and accurately. ✓	Diagrams are included and are labeled.	Needed diagrams are missing OR are missing important labels.
3. Sources 5%	Several reputable background sources were used and cited correctly. ✓	A few reputable background sources are used and cited correctly.	A few background sources are used and cited correctly, but some are not reputable sources.	Background sources are cited incorrectly.
4. Design considerations (safety, cost, etc) 10%	Design is carried out with applicable assumptions and full attention to safety and cost, etc. ✓	Design is generally carried out with assumptions and attention to safety, cost, etc.	Design is carried out with some assumptions and some attention to safety, cost, etc.	Assumptions, safety and cost were ignored in the design.
5. Data and variables 5%	All data and variables are clearly described with all relevant details. The units of all values are shown. ✓	All data and variables are clearly described with most relevant details.	Most data and variables are clearly described with most relevant details.	Data and variables are not described OR the majority lack sufficient detail.
6. Procedure 25%	Procedure is described in clear steps. The step description is in a complete and easy to understand short paragraph. ✓	Procedure is described in clear steps but the step description is not in a complete short paragraph.	Procedure is described in clear steps. The step description is in a complete short paragraph but it is difficult to understand.	Procedure is not described in clear steps at all.
7. Calculations 20%	All calculations are shown and the results are correct and labeled appropriately. The units of all values are shown. ✓	Some calculations are shown and the results are correct and labeled appropriately.	Some calculations are shown and the results labeled appropriately.	No calculations are shown OR results are inaccurate or mislabeled.
8. Summary 5%	Summary describes the design, the relevant information and some future implications.	Summary describes the design and some relevant information.	Summary describes the design.	No summary is written. ✓
9. Materials 5%	All materials used in the design are clearly and accurately described. ✓	Almost all materials used in the design are clearly and accurately described.	Most of the materials used in the design are clearly and accurately described.	Many materials are described inaccurately OR are not described at all.
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Task Rubric

Task 6	Exceeds Standard 100 points	Meets Standard 70 points	Approaches Standard 40 points	Needs Attention 0 points
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3. Sources 5%	Several reputable background sources were used and cited correctly.	A few reputable background sources are used and cited correctly.	A few background sources are used and cited correctly, but some are not reputable sources. ✓	Background sources are cited incorrectly.
4. Design considerations (safety, cost, etc) 10%	Design is carried out with applicable assumptions and full attention to safety and cost, etc.	Design is generally carried out with assumptions and attention to safety, cost, etc.	Design is carried out with some assumptions and some attention to safety, cost, etc.	Assumptions, safety and cost were ignored in the design. ✓
5. Data and variables 5%	All data and variables are clearly described with all relevant details. The units of all values are shown.	All data and variables are clearly described with most relevant details.	Most data and variables are clearly described with most relevant details.	Data and variables are not described OR the majority lack sufficient detail. ✓
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Task Rubric

Task 7	Exceeds Standard 100 points	Meets Standard 70 points	Approaches Standard 40 points	Needs Attention 0 points
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3. Sources 5%	Several reputable background sources were used and cited correctly. ✓	A few reputable background sources are used and cited correctly.	A few background sources are used and cited correctly, but some are not reputable sources.	Background sources are cited incorrectly.
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8. Summary 5%	Summary describes the design, the relevant information and some future implications. ✓	Summary describes the design and some relevant information.	Summary describes the design.	No summary is written.
9. Materials 5%	All materials used in the design are clearly and accurately described. ✓	Almost all materials used in the design are clearly and accurately described.	Most of the materials used in the design are clearly and accurately described.	Many materials are described inaccurately OR are not described at all.
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Task Rubric

Task 8	Exceeds Standard 100 points	Meets Standard 70 points	Approaches Standard 40 points	Needs Attention 0 points
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3. Sources 5%	Several reputable background sources were used and cited correctly. ✓	A few reputable background sources are used and cited correctly.	A few background sources are used and cited correctly, but some are not reputable sources.	Background sources are cited incorrectly.
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Task Rubric				
Task 9	Exceeds Standard 100 points	Meets Standard 70 points	Approaches Standard 40 points	Needs Attention 0 points
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2. Drawings & Diagrams 10%	Clear and accurate diagrams are included and make the section easier to understand. Diagrams are labeled neatly and accurately.	Diagrams are included and are labeled neatly and accurately.	Diagrams are included and are labeled.	Needed diagrams are missing OR are missing important labels. ✓
3. Sources 5%	Several reputable background sources were used and cited correctly.	A few reputable background sources are used and cited correctly.	A few background sources are used and cited correctly, but some are not reputable sources. ✓	Background sources are cited incorrectly.
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Task 9 = 11

17

GRADE2 = 67.5

Comment on what they should do to improve in their task format. What should they do?

A few sections did now have all the parts that make up the task rubric. Be sure that each part is touched on, if the information in that section is covered somewhere else, refer the reader to the location of the information.

Some calculations lacked units.

3) Did they follow the content rubric? Calculate GRADE3 following the provided content rubric. Please be aware that not all the sections of the report have been completed yet as this is just a progress report.

GRADE3: 100

4) Give your suggested grade for this progress report using the formula:

GRADE = (GRADE1 + GRADE2 + GRADE3) / 3

GRADE = 89.16

5) Please comment on their design and the procedure they used for calculations. Is the implemented procedure correct? If not, what can they do to make it correct? Does the design make sense? Is it economical? Do you foresee any operational issue in their design? Always explain the reasoning of your comments.

The overall design of the system looks well thought out. The only major issues I see procedure wise is the tank thicknesses were pulled from a online source, rather than calculated using the $\gamma \cdot h$ equation and 11.9 from the textbook. I would recommend calculating your wall thicknesses and if what was already picked from the table still works you can use that, but verify with your calculations and add that to the report. The blind flange was another area that was not fully calculated. The number of bolts needed for the blind flange and their size needs to be calculated based on the force acting on the blind flange due to the pressure of the fluid. This can be done using the $\gamma \cdot h$ equation and $P=F/A$. Then bolt calculations can be made based on the calculated force. I'm sure 16 bolts would hold on the blind flange but it needs to be proved and the size of these bolts also need to be determined. I do not foresee any operational errors.

6) Assuming the company is deciding whether to continue or not the contract with this group of young talented engineers, based on their performance completing the tasks, how do you think the Engineering Head of the company would be excited about the project? Why? What concerns the Engineering Head would have? Why? The answer to these questions should include your take on all the following: overall design, correctness of the calculation procedure, and progress report presentation.

I think the Engineering Head of the company would continue working with this group, however he or she would have questions like the ones I posed in part 5 of this peer review. The Engineering Head would also want the task procedure followed entirely for each of the tasks. The Engineering Head may ask if money could be saved by utilizing gravity more and question if the holding tank should be expanded to allow for more than one tanker carload. The Engineering Head would be satisfied with the overall presentation of the report.

7) Give the group the most important comment you think they should know. As you write the comment, be sure to describe what you see (positive or negative), explain why it is important your observation, and provide specific information to help them improve their work.

The most important comment I have is to follow the task procedure entirely. That is where most of the missed points came from. Following the rubric helps ensure steps are not missed and each section is thoroughly addressed.

MET 330 Peer Review



Devon MOORE

4:32 PM (0 minutes ago) ☆ ↶ ⋮

to wbenz002, nmcin003, jneel012, mspee001, Orlando ▾

Group 7,

Attached is my review of your progress report.

Thank you,
Devon Moore



↶ Reply

↶ Reply all

↷ Forward