

# Model-Based Systems Engineering: Documentation and Analysis

## *Project Scoring Rubric*

### WEEK 2: BUILDING AN MBSE MODEL

Criterion	Step 1: Develop Five Queries for Your System
<b>Prompt</b>	If you had a full data model available for your system, what would be five of the most important queries you would write to inform your system engineering functions?
<b>Points</b>	
3	<b>Complete:</b> All five data queries and their rationale are provided.
2	<b>Partially Complete:</b> Not all five data queries and/or their rationale are provided. However, at least three are provided.
1	<b>Incomplete:</b> Only one or two data queries and/or their rationale are provided.
0	<b>Not attempted:</b> The project template is without work, in its original state. Sample project is copied for submission.

Criterion	Step 2: Develop the Requirements Diagram
<b>Prompt</b>	For the system you chose in Week 1, please create a requirements diagram with at least 5 requirements.
<b>Points</b>	
3	<b>Complete:</b> All five requirements are provided.
2	<b>Partially Complete:</b> Some requirements are missing. However, at least three are provided.
1	<b>Incomplete:</b> Only one or two requirements are provided.
0	<b>Not attempted:</b> The project template is without work, in its original state. Sample project is copied for submission.

Criterion	Step 3: Develop the Use Case Diagram
<b>Prompt</b>	For the system you chose in Week 1, please create a use case diagram.
<b>Points</b>	
3	<b>Complete:</b> The diagram clearly identifies the system name, actor name/s, and the use cases. The actors are properly connected to their respective use cases. Three or more use cases are provided.
2	<b>Partially Complete:</b> The diagram clearly identifies the system name, actor name/s, and the use cases. The actors are properly connected to their respective use cases. Less than three use cases are provided.
1	<b>Incomplete:</b> System name, actor name, and/or use case names missing, or connectors are missing, or connectors between actors and use cases are wrong.
0	<b>Not attempted:</b> The project template is without work, in its original state. Sample project is copied for submission.

Criterion	Step 4: Develop the Behavior Diagram or Structure Diagram
Prompt	For the system you chose in Week 1, please create either a behavior diagram or a structure diagram.
Points	
3	<b>Complete:</b> The diagram clearly depicts either the behavior or the structure of the system and is logical (for example: you cannot get cash without entering a PIN, or proper symbols such as a composition symbol, are used).
2	<b>Partially Complete:</b> The diagram is not clear and/or seems illogical.
1	<b>Incomplete:</b> The diagram is incomplete and doesn't depict the behavior or structure of the system.
0	<b>Not attempted:</b> The project template is without work, in its original state. Sample project is copied for submission.