

Graded Assignment

Online Component

INSTRUCTIONS

- Convert this PDF document to a Word document (if necessary) to edit your answers then generate (if necessary) a PDF version and email it to the Instructor to: juanpimentel882@gmail.com
- Use the following structure for the name of your file: Your first initial followed by your last name followed by -SE-1, example: jdoe-SE-1.pdf
- Your submitted document should have a maximum of 3 pages.
- You might be able to complete this assignment just studying the document “Overview-Systems-Engineering”. If you need additional background or need to review more fundamental concepts, also study the document “Basic-Concepts-Systems-Engineering”.
- TOPICS: System lifecycle, requirements, V&V, completing large and complex projects.

NAME

1. In your own words, explain the concept of the system lifecycle
2. List the names of typical lifecycle phases
3. List and discuss some advantages of designing large and complex projects in terms of phases of the system lifecycle.
4. Explain the difference between “functional requirements” and “non-functional requirements”. Give a few examples.
5. What is the fundamental difference between verification and validation in the context of the V model of systems engineering.
6. Is it appropriate to use the V model for each of the phases of a system lifecycle? Explain.

