

Assignment 1 Rubric

Part 1: The Therac-25: 30 Years Later (5 marks)

Any answer that looks reasonable and is at least one sentence receives 1 mark.

Part 2 and Part 3 are rubric-based grading. They are assessed on completeness relative to the provided descriptions and on well formedness of the use case model, and graded based on a 5-point rubric.

- [5 points] Excellent (100%)
- [4 points] Very Good (80%)
- [3 points] Satisfactory (60%)
- [2 points] Inadequate (40%)
- [1 points] Poor (20%)
- [0 points] Missing (0%)

Part 2: Elevator installation use-case modelling (15 marks)

Completeness (10 marks) is based on installation steps shown and mentioned in the video and will be assessed as per the following 5-point rubric

- [10 marks] Excellent (100%): All installation phases and most of their sub-steps
- [8 marks] Very Good (80%): All installation phases and roughly ½ of their sub-steps
- [6 marks] Satisfactory (60%): All installation phases and only a few of their sub-steps
- [4 marks] Inadequate (40%): Missing one of the installation phases but with some sub-steps
- [2 marks] Poor (20%): Missing more than one installation phase and most of sub-steps
- [0 marks] Missing (0%): no use case or just names and no steps

Use case diagram (2 marks): show actors, all use cases and their relationship

Consistency (1 mark): Use cases and use case diagram are consistent

Use case form (2 marks)

- Name:
- Primary Actor(s):
- Stakeholders:
- Pre-condition(s):
- Success guarantee(s) (equivalently Post-conditions)
- Main success scenario:
 - should be complete end to end behavior (not fragments)
- Extensions:

Part 3: Elevator Control System (20 marks)

Completeness (15 marks) will be assessed as per the following 5-point rubric

- [15 marks] Excellent (100%): Normal operation, safety features and all of their sub-steps
- [12 marks] Very Good (80%): Normal operation, safety features and roughly 3/4 of their sub-steps
- [9 marks] Satisfactory (60%): Normal operation, safety features and roughly 1/2 of their sub-steps
- [6 marks] Inadequate (40%): Normal operation, missing some safety features and missing most sub-steps
- [3 marks] Poor (20%): Normal operation, no safety features and few or no sub-steps
- [0 marks] Missing (0%): no use cases or just names and no sub-steps

Use case form: (3 marks)

- Name:
- Primary Actor(s):
- Stakeholders:
- Pre-condition(s):
- Success guarantee(s) (equivalently Post-conditions)
- Main success scenario:
 - should be complete end to end behavior (not fragments)
- Extensions:

Use case diagram: (2 marks) show actors, all use cases and their relationship