## Answers to Pearl Test 111 Requirements Engineering, 26.10.2017

- 1. (a) Starting phase / Preparation phase / Execution phase / Closing phase
  - (b) Preliminary work; some preparation needs to be done before you can actually start a project
- 2. (a) and (b) are system-level requirements; they state a function that the system needs to provide.
  - (c) is a business-level requirement; it is a not a system function (the system doesn't know when the car is needed and how long it would take to recharge), but a real-world activity for which the system functions provide help.
- 3. (a) A quality requirement specifies a quality property of the system as a whole.
  - (b) Examples: The system should be operational by 01.01.2018 / The development costs should not exceed €1M / The system should run on Windows 10.
- 4. *Motivation*: Increasing sales and repairs cause a bottleneck in the repair service. This needs to be addressed in order to maintain AAA's reputation.

*Goal of the system*: The system has two goals: to automate some clerical tasks and to improve coordination within the Service Departement.

Exclusions: The system does not provide help with the repairs.

- 5. Stakeholders mentioned in the text and the roles to which they would naturally fit:
  - Aaron: Purchaser (probably also Champion, <u>not</u> Functional Beneficiary)
    Customer: Normal Operator, Functional Beneficiary (gets better service)
    Customer Service Staff: Normal Operator, Functional Beneficiary (work gets easier)
    Technical Service Staff: Normal Operator, Functional Beneficiary (work gets easier)

Essential roles for which no stakeholder is mentioned:

- Developer (without a developer there will be no system)
- Operational Support (essential that someone can help when there are problems)
- Maintenance Operator (essential that mantenance is taken care of)
- 6. (Acceptance criteria were asked for <u>one</u> of the user stories; there are different options)
  - As Customer Service staff I want to create a service record possible accentance criteria:
    - Test with existing order number and summary (pass)
    - Test with existing order number, and empty summary (fail)
    - Test with not existing order number and summary (fail)
  - As service staff I want to consult a service record
  - As Technical Service staff I want to register arrival of a product
  - As Technical Service staff I want to add a cost estimate to a service record
  - As a customer I want to give (no) permission for repair

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    - possible acceptance criteria:
    - Test with correct bank account number (pass)
    - Test with correct credit card number (pass)
    - Test with incorrect bank account / credit card number (fail)
    - Test with expired bank account / credit cart number (fail)
  - As Technical Service staff I want to update a service record
  - As Customer Service staff I want to finalize a service record