CZ3002 Tutorial 9 Testing and CMMI

1. What is regression testing? Explain how the use of automated tests and a testing framework such as JUnit simplifies regression testing.

2. What are the key process areas in Level 2 of CMM? Give five examples of classic mistakes that might be made in the processes of Level 2?

3. Based on the knowledge you have gained from the study of CMM u s i n g CMM structure, explain example goals, commitments, ability, activities and measurement of requirement management.

4. The following written policy for Requirement Management is used in ACME project, ACORN Corp. Briefly describe why it is necessary to have such a policy in the organizational level.

ACORN Corp.

ACME PROJECT

Policy for Requirements Management

Control: Version L 1
Effective: 11/30/00 POC:

Overview

The purpose of Requirements Management is to establish a common understanding between the customer, ACORN senior management, and the ACME d e v e l o p m e n t   team c o n c e r n i n g   the r e q u i r e m e n t s that w i l l b e addressed by the software project. Requirements Management involves establishing and maintaining this understanding over the life of the project. To promote this, the ACME project team will manage the requirements in such a way as to ensure their proper documentation, thorough review, and consistency with all project activity. This approach covers both the technical and nontechnical (e.g., delivery dates) requirements related to the ACME project. In support of this, the following activities are hereby endorsed by ACME project management and ACORN senior management as points of policy for Requirements Management conduct.

Policy Points

1. All ACME requirements will be documented.
2. ACME requirements will be approved by the software managers and impacted groups before any project commitments are made.
3. Software plans and activities for ACME will be kept consistent with any changes to the requirements.

RESPONSIBILITY: ACME Software Project Managers are responsible for implementing this policy.

APPROVED:

ACME Software Project Management   Date

ACME Project Management   Date

ACORN Senior Management   Date