

CMMI-DEV Scenario

Purpose: Describe how CMMI for Development could be applied within a specific organizational context

Instructions:

Send your completed written exercise to the CMMI Institute (certification-info@cmmiinstitute.com) for evaluation. Satisfactory evaluation of this exercise is one of the pre-requisites for registering to attend a session of either CMMI Instructor Training or Learner Centered Orientation. Those whose exercise evaluation is not satisfactory will receive directions for their next steps.

Your submission must include the following information.

Organization Context

In one half to one page of text, describe an organization context, including information regarding the

1. Organization name
2. Organization structure and size
3. Type of work performed
4. Customers
5. Location of work
6. Culture

If the organization described actually exists, please use a fictitious name or document your permission to use the actual name.

Business Value of CMMI Goals

In one half to one page of text, describe the business value for this organization of satisfying the specific goals of each of the CMMI for Development Engineering process areas.

1. Specify the value of each specific goal in terms of one or more of functionality or scope, time, cost, and quality (which includes all of the –ilities, such as reliability, usability, maintainability, etc.)
2. Use plain language and do not quote the CMMI model.

Implementation of CMMI Practices

In one to three pages, describe how the organization implements CMMI for Development Engineering specific practices.

1. Include at least one practice from each specific goal for all Engineering process areas and at least five specific practices from any of the core process areas.
2. Use “plain English”, not CMMI terminology, to describe how the practices are implemented.
3. Include information about
 - a. the activities performed,
 - b. the key artifacts created, and
 - c. the stakeholders involved in performing the activities, providing inputs, and using outputs.
4. Describe how the processes that implement the practices are institutionalized.
5. Tag or footnote your description with the PAs, Goals, and practices related to each activity and key artifact. It is not necessary to describe different activities, artifacts, and stakeholders for each practice.

For example:

For every major release, the performance test team creates and baselines a Product Stress Test Plan that includes information regarding what will be tested, a specification of the test tools to be used, a test harness environment that matches customer environment requirements, and an appendix containing the test cases that will be used. *[VER SG1 all practices, VAL SG1 all practices, VER GP2.3 & GP2.6, VAL GP2.3 and GP2.6, CM SP1.3]*

Tips

1. More is not better. Do not write more than a total of five pages.
2. The description must not be just a repeat of model content. Please keep in mind that we are not looking for you to repeat the model verbatim, but instead want you to describe context-specific implementation based on your understanding of the model.
3. You are not describing a SCAMPI A appraisal. You do not need to describe absolutely everything necessary to “fully implement” a practice. As long as it is a relevant part of implementing a practice, it’s ok to tag an activity or artifact with that practice, even if it does not completely implement the practice.