

Pittsburgh, PA 15213-3890



# CMMI<sup>®</sup> Version 1.2

### **Training Changes**

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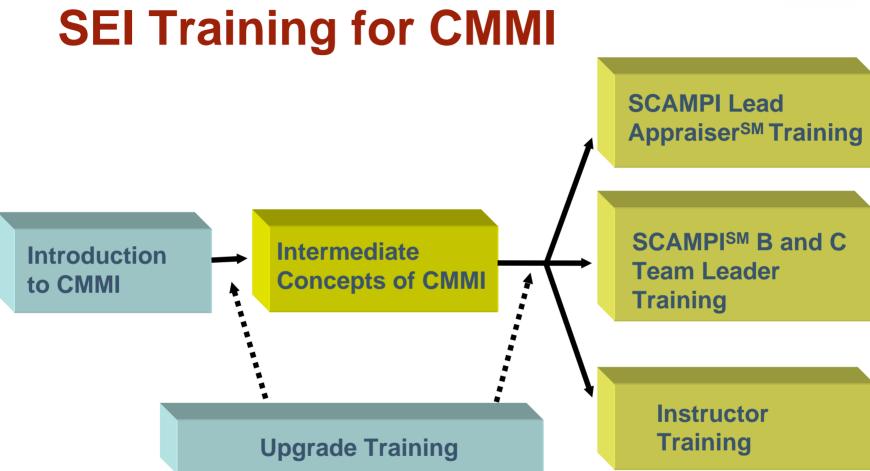


#### Purpose

The purpose of this module is to describe the major changes to the CMMI Training for v1.2.











# **CMMI Training Changes**

The Introduction to CMMI course was updated to address change requests and to address CMMI Product Suite v1.2 changes.

The following courses will be updated in Fall 2006 to address change requests and CMMI Product Suite v1.2 changes:

- Intermediate Concepts of CMMI
- CMMI Instructor Training
- SCAMPI Lead Appraiser Training
- SCAMPI B and C Team Leader Training

CMMI v1.2 Upgrade Training was also developed to help users move from v1.1 to v1.2





# **Topics**

- Introduction to CMMI
- Intermediate Concepts of CMMI
- Instructor Training
- **SCAMPI** Training
- Examinations





# Major Changes to the Introduction to CMMI Course

The major changes to the Introduction to CMMI, v1.2 course focused on three areas:

- course content
- exercises
- course reference





# **Course Content<sup>1</sup>**

The benefits associated with adopting CMMI were updated.

Information about CMMI benefits is available in the SEI technical report, *Performance Results of CMMI-Based Process Improvement* (CMU/SEI-2006-TR-004). It is available on the SEI Web site at <a href="http://www.sei.cmu.edu/publications/documents/06.reports/06tr004.html">http://www.sei.cmu.edu/publications/documents/</a>





# **Course Content<sup>2</sup>**

Material related to the following was removed:

- advanced and base practices
- common features

Material related to the following was added or changed:

- How PAs support the implementation of generic practices was updated. (The basis for this material can be found in Figure 6.2 in the model.)
- The "Sampling Generic Practices" slides now collectively include all generic practices, and reference capability and maturity levels.
- Information on the CMMI architecture was added.





# **Course Content<sup>3</sup>**

These changes were also made to reflect changes in the model:

- Integrated Supplier Management was removed and two specific practices were moved to Supplier Agreement Management.
- Organizational Environment for Integration and Integrated Teaming were removed and material was moved to Organizational Process Definition and Integrated Project Management.
- Two new practices were added to cover work environment one in Organizational Process Definition and one in Integrated Project Management.
- A third goal was added to Organizational Process Focus to address the deployment of organizational process assets.

There are now 22 PAs discussed in the course.





#### **Exercises**

Exercise 1, "Important Process Improvement Ideas," and Exercise 7, "Measurement Implications of Your Process Improvement Goals," were simplified.

Exercises were updated to reflect the removal of some PAs.

Other minor editorial changes were made.





### **Course Reference**

The course was designed so that the reference model used can be either

- the technical report, CMMI for Development, Version 1.2
- the Addison-Wesley book, CMMI: Guidelines for Process Integration and Product Improvement, Second Edition





# **Topics**

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#### Major Changes to Intermediate Concepts of CMMI

The major changes to the Intermediate Concepts of CMMI course will focus on four areas:

- course format
- exercises
- student presentations
- course content

Editorial changes also will be made to correct identified errors.





# **Course Format**

The format of the Intermediate Concepts of CMMI course will change.

In the v1.1 course, the instructor presented material the first day and on following days the students presented. In v1.2, student presentations, exercises, and SEI instructor presentations will be intermixed throughout the week to provide a better balance.

TOEFL\* requirements will now be used as part of the registration process.

\*Test of English as a Foreign Language





# **Course Content**

The majority of changes to the course slides will reflect the changes from CMMI v1.2 model.

In addition, the following changes will be made:

- Material on application and interpretation will be added.
- There will be more emphasis on institutionalization (i.e., generic goals and generic practices).





#### **Exercises**

All exercises will be updated to better meet the course objectives.

Several exercises will be integrated with a common theme so that concepts are developed using related exercises that build on each other throughout the course.





# **Student Presentations**

The student presentations will be modified to better meet the course objectives.

- The process used for assigning student presentation topics will be revised. More information will be collected from students to help to better assign the PAs.
- The length of student presentations will be reduced.
- Slides for instructors will be provided to reinforce the key points of each PA.





# **Topics**

- Introduction to CMMI
- Intermediate Concepts of CMMI
- **Instructor Training**
- **SCAMPI** Training
- Examinations





# **Major Changes to Instructor Training**

The major changes to the Instructor Training course will focus on two areas:

- course content
- student presentations





# **Course Content**

Changes to all course materials will be made to reflect the changes to:

- the Introduction to CMMI course
- the CMMI v1.2 model

The sections that will be revised include:

- the course structure and key concepts section
- the review of CMMI topics section

Editorial changes will be made to correct identified errors.





# **Student Presentations**

The following changes will be made:

- The assignments will be updated to reflect changes in the model (e.g., delete presentation assignments related to the PAs that were removed from the model).
- Add a teaching assignment focused on topics such as
  - model components
  - generic goals and generic practices
  - capability levels and maturity levels
  - benefits of process improvement
  - PA-to-PA relationships





# **Topics**

- Introduction to CMMI
- Intermediate Concepts of CMMI
- Instructor Training
- **SCAMPI** Training
- Examinations





# Major Changes to SCAMPI Training

The changes to the SCAMPI Lead Appraiser Training and SCAMPI B and C Team Leader Training courses will focus on two areas:

- course content
- exercises





# **Course Content**

The majority of changes to the course slides will reflect the changes from SCAMPI v1.2.

In addition, material will be added on ethics and model interpretation.





#### **Exercises**

The majority of changes to the course exercises will be made to reflect the CMMI for Development, Version 1.2.





# **Topics**

- Introduction to CMMI
- Intermediate Concepts of CMMI
- Instructor Training
- **SCAMPI** Training
- Examinations





### **Examinations**

The construction and format of examinations have changed. v1.1 tests were largely short answer tests that were the same for all students.

For v1.2, tests will be generated from an item bank and now will be multiple choice. CMMI v1.2 Upgrade Training for Instructors, Lead Appraisers, and Team Leaders is the first course to use this approach. The Intermediate Concepts of CMMI and Instructor Training will follow.





# **Multiple Choice Examinations**

This new approach, using an item bank and multiple choice questions, allows multiple versions of examinations that can be constructed more easily:

- The sequence of multiple choice responses can vary from test to test.
- The order of questions can vary from test to test.
- The selection of questions can vary from test to test, but cover the same categories.

This new approach allows us to

- add, modify, and delete questions from the test more easily
- better evaluate the student's knowledge





# Summary

Many changes were made to the CMMI training courses to improve quality and reflect changes to the CMMI Product Suite:

- CMMI for Development, Version 1.2
- SCAMPI v1.2
- Introduction to CMMI, v1.2