

The Aerospace Corporation

Capability Maturity Model Integration for Development (CMMI-DEV), V1.2

This three-day course introduces systems, hardware and software engineering managers and practitioners, appraisal team members, and engineering process group (e.g., SEPG, EPG) members to Capability Maturity Model® Integration (CMMI®) fundamental concepts. CMMI models are tools that help organizations improve their ability to develop and maintain quality products and services. CMMI models are an integration of best practices from proven discipline-specific process improvement models, including the CMM® for Software, EIA 731, and the Integrated Product Development CMM.

This course has been updated to be part of Version 1.2 of the CMMI Product Suite. The course was also improved to respond to change requests submitted by students, instructors, and others.

The course is composed of lectures and class exercises with ample opportunity for participant questions and discussions. After attending the course, participants will be able to describe the components of CMMI models and their relationships, discuss the process areas in CMMI models, and locate relevant information in the model.

This course fulfills a prerequisite requirement for any course requiring an official SEI Introduction to CMMI course.

Topics Include

- Introduction
- Model-based process improvement
- Overview of CMMI components
- Institutionalization
- Process areas of CMMI mode
- Structure of the continuous and staged representations
- Next steps

Who Should Attend

- Program managers and contractor monitors
- Product developers and process implementers
- Appraisal team members (assessors or evaluators)
- Anyone interested in learning about CMMI

Expected Outcomes

Successful completion of this course will enable participants to:

- Understand the benefits of process improvement
- Describe the components of CMMI models and their relationships
- Discuss the process areas
- Describe the model content

Course Work

Reading homework is required the first and second evenings of the course.

Course Materials

On the first day of the course, participants will receive CMMI®: *Guidelines for Process Integration and Product Improvement* and a course notebook with copies of the course slides.

Course Length

Three days. The Software Engineering Institute (SEI) requires students to participate in and attend all three days (100 percent attendance) to successfully complete the course.

Prerequisite

None

Instructors

Leia R. Bowers is an Engineering Specialist, Peter Hantos is a Senior Engineering Specialist, and Leslie Holloway is the Director in the Software Acquisition and Process Department at The Aerospace Corporation.

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2350 East El Segundo Boulevard

El Segundo, CA 90245-4691

310.336.5000

www.aero.org/education/

Contact

Call or write for information on
class schedules and pricing.

310.336.5504

InstituteCC@aero.org