

## Introduction to CMMI®

### Course Description:

This is the official training of the Software Engineering Institute (SEI) "Introduction to the Capability Maturity Model Integration version 1.3". Upon completion each participant receives the official certificate of the SEI at the Carnegie Mellon University for successfully participating in the training. The training provides an understanding of CMMI with lectures, practical exercises and sufficient time for questions and sharing best practices. In contrast to many theoretical seminars, you will get immediately useful practical guidance.

The Introduction to Capability Maturity Model® Integration v1.3 course introduces participants to the Capability Maturity Model® Integration and its fundamental concepts. The course discussion emphasizes understanding of the CMMI structure, capability levels, maturity levels and all process areas.

This three-day course describes a framework that organisations can use to determine their ability to establish and maintain adequate processes; it is a model for organisational improvement. The course is composed of lectures and class exercises with ample opportunity for participant questions and discussions.

Introduction to CMMI helps prepare participants to make valid judgements regarding an organisation's implementation of the process areas. The course is helpful in identifying issues that should be addressed in performing process improvement as structured by the respective representation of the CMMI model.

Additional bonus: The widely-used assessment tool [COMPASS](#) will be introduced. You will get your own demo version with full functionality for entries from your own organization.

### Key Topics (identical to the SEI mandatory curriculum)

1. Introduction
2. Process Improvement Concepts
3. CMMI Overview
4. CMMI structure, components and institutionalization
5. CMMI Representations
6. CMMI Capability levels and Maturity levels
7. Process Areas and their relationships
8. Interpreting CMMI
9. Application of CMMI and practical insight from industrial experiences

### Benefits of the course:

- You will understand the importance of effective processes for efficient and customer-focused systems and software engineering.

- You are able to describe the architecture and components of the CMMI models (capability levels, maturity levels, process areas, goals and practices).
- You will know how process assessments and evaluations according to CMMI and SCAM-PI are performed.
- You are able to apply the CMMI principles to meet the needs of systems engineering and software engineering organisations.
- You learn how to practically use the CMMI for process- and performance improvement.
- This course is a prerequisite for participating as a full team member in a SCAMPI® appraisal. This course also fulfils a prerequisite requirement for any course requiring an official SEI Introductory CMMI course (e.g. “Intermediate concepts of CMMI”).

### **Prerequisites:**

Participants should have some background in systems or software engineering, ideally having had exposure to quality assurance, configuration management, and basic management principles.

### **Who should attend this course:**

Managers, project leaders, developers and engineers from all industries

- Quality engineers and managers
- Members of process improvement projects
- Process experts
- Project managers
- Department heads
- Engineering managers
- Consultants
- Appraisal teams who are going to use the CMMI-based appraisal method in the future (SCAMPI®)

### **Trainer:**

Your trainer will be [Dr. Christof Ebert](#), managing director at Vector Consulting Services. Christof is a widely recognized expert for change management and optimizing product development. He is known for his [worldwide trainings and keynotes](#), improvement projects and several [books](#).

This training will be delivered under license agreement with the Software Engineering Institute. The presenter is an SEI authorized CMMI instructor (the Software Engineering Institute is part of the Carnegie Mellon University, Pittsburgh, USA).