

ESI Training Services:  
Technology Introduction  
Courses



# Introduction to CMMI® (Staged and Continuous)

**3-day course officially authorised by SEI**

The SEI Capability Maturity Model Integration® (CMMI®) has replaced the existing SW CMM. CMMI covers a broader domain since it addresses not only software but also systems aspects. This course introduces attendees to CMMI best practices. It describes fundamental concepts and structure of the model, covering staged and continuous representation.

This three-day course introduces systems 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.

**In response to community requests  
this course is an upgrade to the  
existing Introduction to CMMI, Staged  
Representation and Continuous  
Representation courses.**

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SEI: "Software Engineering Institute" affiliated to Carnegie Mellon University

## Information & Registration

ESI Training Services  
European Software Institute  
Parque Tecnológico #204  
Zamudio, 48170  
Bizkaia - Spain  
Tel: +34.944209519  
Fax: +34.944209420  
Email: [training@esi.es](mailto:training@esi.es)  
<http://www.esi.es>

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In response to community requests **this course is an upgrade to the existing Introduction to CMMI, Staged Representation and Continuous Representation courses**, incorporating concepts from both. The course also includes improvements to slides, exercises, and other course materials identified in other change requests submitted by the community. Those who have already taken one of the existing Introduction to CMMI courses (staged and continuous) do not need to take the new course unless they feel they need a refresher.

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 be able to locate relevant information in the model.

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

Homework is required the first and second day of the course.

## Who Should Attend this Course?

- Product developers and process implementers
- Anyone interested in learning about CMMI
- Systems and software engineering managers and practitioners

## Prerequisites

Participants must have knowledge of systems engineering, software engineering and management.

Completion of this course is a prerequisite for CMMI-based appraisal training.

## Objectives

The students completing this course will be able to:

- Describe the fundamentals of model-based process improvement
- Illustrate the benefits of process improvement
- Explain the structure of the CMMI model
- Apply the CMMI principles to meet the needs of systems and software development organisations

## Course Materials

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

## Key Topics

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

The European Software Institute (ESI) is one of the world's leading independent authorities on software process improvement. We help businesses design, implement and measure improvement programmes that achieve real commercial goals such as reduced effort and costs and increased product quality.



## About ESI

Established in 1993 and with its headquarters in Spain, ESI is a non-profit organisation, which offers consultancy and training services, supported by a highly qualified team of experts and an extensive network of international alliances.

ESI offers a broad **training portfolio** that will help meet your needs, whether you are a beginner seeking an introduction to SPI or an expert looking for more advanced SPI diagnosis and implementation programmes.

## ESI's Training Philosophy

Our training is developed in line with ESI's work in emerging, cutting-edge technologies. Our philosophy is always to help turn theory into actual implementation in the work environment, calling on industry experience, case studies and ESI's Best Practice Repository.

In addition to its open programme, ESI also offers in-company training and consultancy packages and is developing a number of Internet-Based Training products.

For further information contact **ESI Training Services Unit**.

ESI can offer in-company training in SPI,  
or combine training with consultancy activities to  
offer an **integrated service** approach  
to support the implementation of SPI  
in your organisation.

