

# The Capability Maturity Model Integration® (CMMI®) for Senior Managers

ESI Training Services:  
Awareness Tutorials

Everyone realises the importance of having motivated and high-quality staff, but even your best people cannot perform at their best when the process is not understood or operating "at its best". Getting the people-process-technology triad working at "its best" is imperative for those organisations that want to deliver their products better, faster and cheaper. However, the complexity of the products that are being built and the influence of internal and external requirements and pressures means that the probability of organisational prosperity in the future will be highly influenced by the willingness of the organisation to address process improvement across the entire product development life cycle – from conception through delivery and maintenance.

While software development is not the principal business activity for many organisations, software has become a strategic and competitive differentiator across most business sectors. As such, automotive manufacturers, financial institutions, public administrations (just to name a few of a wide myriad of public and private sectors that are significant software consumers), as well as classic software and systems developers, find that they are highly dependent on their capability to manage the development of high-quality software that is integrated into their own product and service portfolio.

The Capability Maturity Model Integration (CMMI) is an integrated model for systems and software engineering process improvement, integrated product and process development improvement and supplier sourcing. It integrates best practices from disciplines such as software engineering and management, systems engineering and software acquisition that were typically addressed as separate improvement initiatives in the past. The CMMI is the evolution of older, consolidated models (Software CMM, Systems Engineering CMM, Software Acquisition CMM) that provides a refined set of practices based on years of experience. Using the CMMI model encourages enterprise-wide improvement and integrated appraisal of both systems and software engineering. It encourages organisations to address the full product development life cycle, independent of whether the product is a software system, an automatic teller, a mobile phone, etc.

The CMMI for Senior Managers is a one day seminar that gives a top-level view of the CMMI so that senior level managers have sufficient grounding in CMMI to understand what is involved in a CMMI-based Process Improvement (PI) programme. The tutorial is oriented to senior managers; product and technical managers representing the main business units of the organisation, and will address such issues as: how PI can benefit the business objectives of an organisation, the tangible and intangible benefits of PI, and to appreciate the time and effort needed to move between the CMMI levels.

The topics covered in the seminar are:

- Impetus for Process Improvement
- Process Management Concepts
- Overview of CMMI
- CMMI representations and versions
- CMMI Process Areas
- The Improvement Path

## 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>

## Training

### Introduction to the Capability Maturity Model Integration (CMMI)

The SEI Capability Maturity Model Integration (CMMI) describes a framework that organisations can use to determine their ability to develop and maintain software and systems; it is a model for organisational improvement. This training presents an overview of CMMI and is a pre-requisite to completing the "Intermediate Concepts of CMMI and the "SCAMPI Lead Appraiser Training".

The underlying principles of the CMMI stand behind all current approaches to software development process assessment and improvement, including ISO and SPICE (ISO/IEC 15504). This 3 day course presents an overview for practitioners of the CMMI's five-level maturity scale (Staged Representation) and explains all of its Process Areas to provide a complete overview of the concepts of the CMMI. It enables the participants to identify the issues essential for process improvement using the CMMI and to begin to make judgments on the implementation of the CMMI. The course is based on version 1.1 of the CMMI.

### Managing SPI - a practical guide to implementing SW-CMM

This workshop is led by an ESI Senior Consultant and provides a three-day intensive hands-on environment, where participants are encouraged to focus on a specific, real-life technology transition project. The participants learn the skills and knowledge needed to implement a SPI programme smoothly and efficiently, and is an ideal follow up to the "Introduction to CMMI" training. The workshop covers all the human and organisational aspects that impact on the success of introducing change within an organisation. The content of the workshop is supported by a specific case study which runs throughout the three-day programme.

## Assessments

### SCAMPI<sup>SM</sup> Appraisal

The Standard CMMI Appraisal Method for Process Improvement (SCAMPI) is designed to provide detailed findings (strengths and weaknesses) that support benchmark quality ratings relative to the CMMI models. It can be applied in several ways, including both internal process improvement and external capability determination. SCAMPI satisfies all the Appraisal Requirements for CMMI (ARC) requirements for Class A appraisal method and can support the conduct of ISO/IEC 15504 (SPICE) conformant appraisals.

Through the SCAMPI an organisation will be able to establish an effective process improvement program by prioritizing the improvement key areas and focusing on improvements aligned with the business goals.

ESI supports the organisations in planning and executing CMMI based appraisals. ESI can offer a full SCAMPI appraisal service, whereby the company is assured that the appraisal results will be reported to the Software Engineering Institute (SEI).

---

<sup>SM</sup> SCAMPI is a service mark of Carnegie Mellon University.