Introduction to CMMI For Development

"Introduction to CMMI®" for development is a 3-day, CMMI Institute / SEI Institute authorised course that is recommended for product developers, process implementers and development/process managers interested in developing their knowledge and confidence in CMMI. It is a pre-requisite for many CMMI® activities (e.g. Class A appraisal team membership) and is mandatory for anybody wishing to progress to higher level CMMI® roles (e.g. CMMI Instructors, CMMI Lead Appraisers)."

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 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.

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.

COURSE OBJECTIVES:

✓ To understand the CMMI model contents to CMMI practice level, and how to navigate SEI's CMMI model to find lower level details.
✓ To provide sufficient understanding of the CMMI structure to be able to apply the model appropriately in a practical setting.
✓ To provide sufficient understanding of CMMI to participate in CMMI appraisals.
✓ To prepare candidates for progression to more advanced SEI authorised CMMI training.

BENEFITS OF ATTENDING:

✓ Good understanding of the background concepts of process improvement and CMMI
✓ Good understanding of the purpose and structure of the CMMI model
✓ Good understanding of the process categories covered by the CMMI for Development, and the similarities and differences of the
✓ Development, Acquisition and Service constellations
✓ Practice level understanding of all process areas in the CMMI for Development
✓ Knowledge of how to use the CMMI model for process improvement
✓ Practical exercises to relate the CMMI model to typical scenarios
✓ Opportunity to relate the CMMI model and its use to candidates' own circumstances

COURSE FORMAT:

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COURSE OBJECTIVES:

- ✓ Candidate CMMI lead appraisers and CMMI instructors
- ✓ CMMI Appraisal team members
- ✓ Engineering process group members
- ✓ Process implementers
- ✓ Product developers
- ✓ Project managers

PREREQUISITES:

There are no prerequisites for this course and no preparatory work is required. There is a small amount of evening reading during the course.

TOPICS COVERED:

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

OBJECTIVES:

Successful completion of this course will enable participants to:

- ✓ describe the fundamentals of model-based process improvement
- ✓ illustrate the benefits of process improvement
- ✓ introduce CMMI model content

COURSE WORK:

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

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