CSSA
Cepeda Systems & Software Analysis, Inc.

CMMIDEV/3℠
Exp. 2019-12-15 / Appraisal #28379
CMMISVC/2℠
Exp. 2019-12-15 / Appraisal #28379

2017 WINNER
SMALL BUSINESS AWARDS
Huntsville Madison County Chamber

NASA 2016 Agency-Level
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OFFERED BY

Cepeda Systems & Software Analysis, Inc. (CSSA), a CMMI Institute Partner and a CMMI-DEV Level 3 and CMMI-SVC Level 2-rated company

Successful completion of this course is required for any individual who:
- Is assigned as a team member for a SCAMPI℠ CMMI for Development (CMMI-DEV) appraisal
- Intends to become a CMMI Institute-certified SCAMPI Lead Appraiser for CMMI-DEV

WHO SHOULD ATTEND THIS COURSE?

In addition to Lead Appraisers and Appraisal Team members, who are required to attend, this course is also essential for:
- Product Developers, Product Managers, and Practitioners interested in understanding how to apply the best practices captured in Capability Maturity Model Integration (CMMI) models to achieve excellence in product development
- Systems and Software Engineering Process Group (SEPG) members and managers who are leading process improvement efforts within their organizations, whether or not they are preparing for a formal SCAMPI appraisal.

COURSE DESCRIPTION

This course introduces participants to CMMI and its fundamental concepts. CMMI-DEV is a tool that helps organizations improve their ability to develop and maintain quality products and services. Introduction to CMMI-DEV helps prepare participants to make valid judgments regarding an organization's implementation of industry's best practices. The course is helpful in identifying issues that are addressed in performing process improvement as defined by the CMMI-DEV model. This course fulfills a prerequisite requirement for any course requiring an official CMMI Institute Introductory CMMI course.

COURSE TOPICS

Topics covered in this course include:
- INTRODUCTION
- MODEL-BASED PROCESS IMPROVEMENT
- OVERVIEW OF CMMI COMPONENTS
- INSTITUTIONALIZATION
- PROCESS AREAS OF CMMI MODELS
- STRUCTURE OF THE CONTINUOUS AND STAGED REPRESENTATIONS
- NEXT STEPS

COURSE OBJECTIVES

The course will help participants
- Understand the importance of having defined processes within an engineering organization and the rationale for process improvement.
- Comprehend the architecture of the CMMI model (maturity/capability levels, process areas, goals, and generic practices).
- Gain a sufficient understanding of Process Area components to function as a CMMI-Based Appraisal team member.
- Be able to apply the CMMI principles to meet the needs of systems engineering and software engineering organizations.

PREREQUISITES

Participants must have knowledge of systems engineering, software engineering, and management, including exposure to quality assurance, configuration management, and basic management principles.

SCHEDULE

Introduction to CMMI-DEV is a 2.5 day course, 8:30AM to 5:00PM Day 1 and 2; 8:30AM to 12:30PM Day 3.

COURSE MATERIALS

Participants receive the CMMI for Development model, a course notebook, and a CSSA-developed CMMI-DEV quick reference guide.

ABOUT CSSA

Based in Huntsville, AL, CSSA provides process improvement and software and systems engineering services to projects and organizations of all sizes in a wide variety of industries. Further information on our services can be obtained at: www.cepedasystems.com

CMMI® Institute Partner

ABOUT THE INSTRUCTORS

Sandra Cepeda, President and CEO of CSSA, is a certified instructor for this course. As a contributing author of both the CMMI model and the SCAMPI appraisal method, a SCAMPI High Maturity Lead Appraiser, and a CMMI Institute Consultant, Lead Appraiser, Instructor, and Observer, Sandra brings unique and invaluable insights into the background and interpretation of CMMI models. Her 31 years of hands-on service delivery and product development, as well as process improvement background, provide students with a practical approach to applying the model in their organizations. Sandra holds a B.S and M.S in Computer Engineering from Auburn University.

Harini Daram, PMP, Senior Process Improvement Engineer, has 18 years of professional experience in both government and commercial sectors. She is a certified instructor for the Introduction to CMMI for Development course. Harini has hands-on product development experience across the life cycle for Army, Air Force, and NASA programs. She is also experienced in Quality Assurance and has co-led and participated as a CMMI expert in CMMI® initiatives resulting in successful SCAMPI appraisals. She received a BSEE from the University of Alabama in Huntsville and a MSCS from Alabama A&M University. She is a member of Project Management Institute.