

NEW FALL 2008 SCHEDULE

REQUIREMENTS

Mastering the Requirements Process UPDATED

Requirements Modeling UPDATED

CMMI® & SOFTWARE MEASUREMENT

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

Business-Driven Software Measurement

On-site Training Available—

For additional savings, bring this course to your organization for team training.



Public Training
On-site Training
eLearning
Consulting

CHOOSE THE BEST LEARNING OPTION FOR YOU AND YOUR TEAM



Public Training Courses

We provide the widest selection of specialized training courses—and we're expanding our selection all the time. Developed by top industry consultants, all courses are based on the latest industry practices and updated regularly to reflect current technologies, trends, and issues. Industry experts teach all SQE Training courses. We enhance your experience with expert instruction, content tailored to students' needs, and group discussions. We offer you the best training value in the software industry.



On-site Training

Looking for ways to save training and travel dollars? Take advantage of the cost-effective convenience of on-site training. To provide your team the training they need without sacrificing project schedules or incurring travel time and expenses, bring our training to your facility.



Training Week

Maximize the impact of your training by combining courses in the same location to create a customized training week. Look for this marked on Training Week courses. Pair two and save \$300!

For more information about SQE Training's courses and management consulting services, please visit www.SQETraining.com.



For additional information or to receive a FREE quote, call 888.268.8770/904.278.0524, or email onsitetraining@sqe.com.

ON-SITE TRAINING

Looking for ways to save training and travel dollars? Take advantage of the cost-effective convenience of on-site training to get your team the training they need without requiring them to sacrifice project schedules or incur travel time and expense. Our on-site training offers many benefits:

- Save time and money—Bring team training to your location
- Manageable workloads—Schedule training around your projects, not the other way around
- Customizable content—Offer your team a training curriculum that adheres to your corporate goals, technology environment, and business needs
- Consulting services—Learn from instructors who are world-class consultants with exceptional qualifications and a broad range of real-world experience, augment your training programs with SQE Training's consulting services
- Small groups—Benefit from focused training that offers your team members individual attention with plenty of time for questions. Class sizes can range from 6–25 people
- Employee development—Develop the talent already on your team, increase employee satisfaction—and save company dollars

If you have six or more people to train, consider the advantages of on-site instruction

For additional information call 904.278.0524 or email onsitetraining@sqe.com.

WHO'S BEHIND THE TRAINING?







SQE Training provides the widest selection of specialized software training courses available. Developed and taught by top industry consultants, all courses are based on the latest industry practices and updated regularly to reflect current technologies, trends, and issues. Find the training you need for software testing, development, management, requirements, and security. **www.SQETraining.com**

Easy to Register



Online:

www.SQETraining.com/register



Phone:

888.268.8770/904.278.0524



Email:

sqeinfo@sqe.com

Ways to Save

Take advantage of the different "Ways to Save" on training using our discount programs listed below. Purchase specialized software training for your whole team and save.



Bring any course to your location for team training. Take advantage of this cost-effective convenience for your team of six or more. For a free quote, contact us at onsitetraining@sqe.com or 888.268.8770 or 904.278.0524.



Attend a week's worth of specialized training in the same location and save \$300. See page 3 for details.



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BUILD-YOUR-OWN TRAINING WEEK



Maximize the impact of your training by combining courses in the same location to create a customized training week. Pair two courses and save \$300.

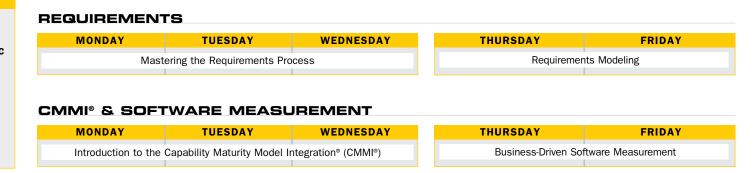
TRAINING LOCATIONS

REQUIREMENTS

September 8–12, 2008 Washington, DC October 6–10, 2008 San Diego, CA

CMMI® & SOFTWARE MEASUREMENT

September 22–26, 2008 Boston, MA November 10–14, 2008 Las Vegas, NV Pair any of these courses in the same location to build a week of training and save \$300.



These additional courses are also available! Check online at www.SQETraining.com for dates and locations.

Agile Software Development Training

PRACTICAL TEST-DRIVEN DEVELOPMENT

A Revolutionary Approach to Software Design and Programming

DESIGN PATTERNS EXPLAINED NEW

Principles, Practices, and Qualities of Good Design

SCRUM MASTER IMPLEMENTATION

WORKSHOP NEW

Applying Lean-Agile Software Development
Practices with Scrum

LEAN-AGILE TESTING PRACTICES NEW

Rapid Delivery of High Quality Software

USER STORIES AND ESTIMATION IN AGILE DEVELOPMENT

How to Write User Stories and Estimate Development Time

Software Testing Training

SYSTEMATIC SOFTWARE TESTING

A Risk-Based Approach for Producing Better Software

MASTERING TEST DESIGN UPDATED

Techniques for Developing Focused Test Cases

SOFTWARE TESTING CERTIFICATION

Certified Tester-Foundation Level Training

JUST-IN-TIME SOFTWARE TESTING NEW

Powerful Tools for Fast-Changing Projects and Priorities

TEST MANAGEMENT

What Every Test Manager Needs to Know

EXPLORATORY TESTING IN PRACTICE IN

Plan, Design, and Execute Tests Simultaneously to Find More Bugs—Faster

3 Days **Topical Outline:**

Costs of Development

The requirements process Overview of the requirements process Cyclical requirements

Project Blast-Off

Scope of the business area Identifying and using stakeholder maps Testable project goals Ensuring a viable requirements project

Trawling for Requirements

Finding the real requirements Requirements for agile projects Apprenticing, wikis, and other methods Using business events and use cases

Functional Requirements

Identifying what the product must do Establishing the product scope Writing use case scenarios Requirements, not solutions

Non-functional Requirements

Qualities of the product Usability, look and feel, security, etc. How to find non-functional requirements

Managing Your Requirements

Specification templates Tracing requirements Prioritizing requirements Automated requirements tools

The Quality Gateway

Stopping requirements creep Defining fit criteria Testing requirements

Prototyping and Scenarios

Using prototypes to drive out requirements Low- and high-fidelity prototypes

Your Requirements Process

Deciding your own process How to use a fast-track approach Planning iterative development Knowing when you have all the requirements

MASTERING THE REQUIREMENTS PROCESS

Build the Right Software—the First Time

UPDATED

- Learn the complete process of eliciting, writing, and testing requirements
- Write universally understandable requirements
- Understand exactly what your customer wants—and needs

Why Requirements—What's in it for You?

The problem is that people use software, but other people build it. Solving the problem means understanding the actual work of the business users—and what they need to do it. Requirements is about deducing the product that will add long-term value to the organization—and then writing requirements that lock the developers into the exact product.

Getting It Right the First Time

Building software today means that you are in it for the long haul. And you know that there are more demands—and fewer resources—to meet those demands. Getting the software right—the first time—is the only way to succeed under these circumstances. Today's requirements process is incremental with quick cycle times. It uses prototypes and scenarios, and the requirements process ensures that you get the right result by writing a fit criterion—a test case for the requirement.

Your Requirements

Requirements are the most misunderstood—yet the most crucial—part of systems development. If the requirements are wrong, you end up with the wrong system. Your requirements process must be your own, but it should be based on field-proven techniques and templates. This course presents the Volere process—used and improved by thousands of organizations around the world—and then shows you how you make it your own process. As a participant, you receive the Volere Requirements Specification Template—downloaded by more than 13,000 users—to take home with you. Your instructor has written requirements for dozens of projects and brings you insight that only comes from real world experience. You will learn insights and techniques that you can put to work right away.



Take-Home Bonus

Each public course participant receives a copy of Suzanne and James Robertson's book Mastering the Requirements Process-Second Edition.

ABOUT THE INSTRUCTOR



Tim Lister is a software consultant at Atlantic Systems Guild, Inc., based in the New York office. He divides his time between consulting, teaching, and writing. With his business partner, Tom DeMarco, Tim is co-author of the book Waltzing with Bears: Managing Risk on Software Projects, which won Software Development magazine's Jolt

Award for General Computing Book of the Year 2003-2004. Tim Lister and Tom DeMarco also co-authored Peopleware: Productive Projects and Teams. A member of the Cutter IT Trends Council, IEEE, and the ACM. Tim is in his twentieth year as a panelist for the American Arbitration Association, arbitrating disputes involving software.

James Robertson and Suzanne Robertson are additional instructors for this course.

PUBLIC COURSE OFFERINGS

Washington, DC San Diego, CA

September 8-10, 2008 October 6-8, 2008

Indicates a Training Week course. See page 3 for details.

For the latest information on this course and to download a PDF brochure. visit: www.S0ETraining.com/mrp

REQUIREMENTS MODELING UPDATED

Use Models to Improve Your Requirements Gathering and Systems Analysis

- Verify system requirements with models
- Analyze needs based on requirements
- Model data and states to better understand requirements

All engineering disciplines use models to develop the products they intend to build. The reason is simple: Models help to uncover—and then clarify—the functional and data requirements for any product, including software systems. A poor set of requirements will cripple any project. Modeling the business and its requirements is a proven way of finding all the requirements and guaranteeing their accuracy. Once you know they are correct, you can use the requirements models as specifications for the designers and builders of the system.

Learn How to Show What a System Is—Not Just What it Does

You can describe a system by what it is and by what it does. For example, consider this typical statement from a requirements specification: "The product must calculate the cheapest fare." Beyond this innocent description of what the system must do lies a complex set of rules, procedures, data, and functions. Requirements modeling discovers the rules for calculating the cheapest fare, the algorithms needed, and the data necessary to complete and support those calculations. In other words, you build a complete model of the system.

You also can use models when eliciting requirements. A quickly sketched process model can be indispensible for displaying your understanding of the system during interviews. A data or class model reveals the policy of the system and any gaps are quickly discovered by a model constructed with your customer. A state model explains how a system behaves and thus clarifies the consequences of requirements.

Put Techniques into Practice

This course includes frequent opportunities to apply the illustrated techniques. You work with your instructor to build models and prove or disprove example requirements. You construct models to elicit requirements and then feed them back to see if your understanding matches that of your customer. Learn to evaluate when each of the models is useful and what degree of detail is necessary.



Take-Home Bonus

Each public course participant receives a copy of James and Suzanne Robertson's book Complete Systems Analysis for class work and for later review of course material.

ABOUT THE INSTRUCTOR



Tim Lister is a software consultant at Atlantic Systems Guild, Inc., based in the New York office. He divides his time between consulting, teaching, and writing. With his business partner, Tom DeMarco, Tim is co-author of the book Waltzing with Bears: Managing Risk on Software Projects, which won Software Development magazine's Jolt

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James Robertson and Suzanne Robertson are additional instructors for this course.

PUBLIC COURSE OFFERINGS

Washington, DC San Diego, CA

September 11-12, 2008 October 9-10, 2008

Indicates a Training Week course. See page 3 for details.

For the latest information on this course and to download a PDF brochure, www.SQETraining.com/rm

2 Days Topical Outline:

Modeling

Objectives

Requirements and systems analysis How modeling is used in product development

The Context Model

Describing the scope of the problem How the work connects to the outside world Ensuring that the scope is accurate

Event Partitioning

Need to partition large systems into smaller parts

Work's response to the business event How to find the business events

Process Modeling

Event response process models Process specifications and data definitions Modeling viewpoints and how to use them

Data Modeling

Class or entity model Classes, attributes, and associations

Heuristics for finding classes and associations Relationship between process and data Using attribution to construct first-cut models

State Modeling

State models and why we want them Link between state transitions and business events Modeling the states of classes

Modeling the Product

Building models of the software product UML models

Role of business events and adjacent systems Determining the product scope

Business events and use cases

LEARNING **OPTIONS:**

Process Improvement





3 Days **Topical Outline:**

Process Improvement Concepts and CMMI®

Exercise—Important process improvement ideas and CMMI®

Overview of CMMI® Model Components

Model Representations and Institutionalization

Exercise—Introduction to defining processes

Product Development—Part 1

Requirements development Requirements management

Managing the Project

Project planning Project monitoring and control Risk management Supplier agreement management

Project and Organization Support

Configuration management Process and product quality assurance Measurement and analysis Exercise—Process definition and gap analysis Using a process area Decision analysis and resolution Causal analysis and resolution

Product Development—Part 2

Technical solution Product integration Verification Exercise—Impact of an engineering change

Improvement Infrastructure

Organizational process focus Organizational process definition Exercise—Process asset library "match game" Integrated project management Organization innovation and deployment Organizational training Exercise—Scenario evaluation

Managing Quantitatively

Organizational process performance Ouantitative project management Exercise—Measurement implications of your process improvement goals

Supporting a Complex Environment

Organizational environment for integration Integrated project management Integrated teaming Integrated supplier management

Tying It All Together and Next Steps

INTRODUCTION TO THE CAPABILITY NEW MATURITY MODEL® INTEGRATION (CMMI®)

Practical Software Process Improvement with Staged and Continuous Approaches

- Learn the fundamental concepts of the CMMI® process improvement model
- Review the five software maturity levels and their process areas (PAs)
- **■** Examine the structure of the continuous and staged representations
- Find out how to improve software practices with CMMI®
- Take back the principles necessary to support an effective improvement program

David Consulting Group www.davideonsultinggroup.com

Prepare Your Team and Organization for Serious

The Capability Maturity Model® Integration for software describes a proven process framework to dramatically improve the development and maintenance of software. CMMI® models are tools to help an organization improve its ability to develop and maintain high quality software products and services. Led by a Software Engineering Institute (SEI)-trained consultant and authorized lead assessor, this course helps you prepare to make the process and organizational changes necessary to implement a CMMI® program. Through exercises and group discussions, you learn and practice the steps to prepare for and implement a CMMI® program in your organization.

Implementing Successful Improvements

Learn the prerequisites and issues that must be addressed before beginning meaningful process improvements as structured by the CMMI®. Take away a



Take-Home Bonus

Each public course participant receives a copy of CMMI®: Guidelines for Process Integration and Product Improvement.

practical understanding of the components of CMMI® models and their relationships to your organization. After participating in this course, students will be able to discuss the process areas in CMMI® models and locate relevant information in the model.

Who Should Attend

This course is appropriate for software development managers, leaders, and professionals with an interest in CMMI® as well as assessment, evaluation, and appraisal teams intending to use the CMMI®.

This course fulfills a prerequisite requirement as an official SEI Introductory CMMI® course and requires that students participate in all classroom activities to receive a certificate of completion. Students will have evening reading assignments on the first two days of the class.

CMMI® is a registered trademark of Carnegie Mellon University.

SQE Training, in collaboration with David Consulting Group, is arranging the Software Engineering Institute's authorized introduction to CMMI V.12 training course on September 22-24, 2008 in Boston, MA and November 10-12, 2008 in Las Vegas, NV, This training will be delivered under David Consulting Group's license agreement with the Software Engineering Institute.

ABOUT THE INSTRUCTOR



Will McKnight is an experienced process improvement specialist, who has worked on CMM[®]/ CMMI®-based improvement programs in multi-national settings, in a wide range of organizations and types of software. He has more than twenty years of experience in all phases of the software development life cycle. Will's specialization in product development

and management provides him with a deep, "hands-on" understanding of what it takes to provide practical guidance to organizations working to improve their processes. As an SEI-authorized Lead Assessor for SW-CMM®, he has performed numerous assessments. Will is also an SEI-authorized SCAMPI Lead Appraiser for CMMI®.

PUBLIC COURSE OFFERINGS

Boston, MA

September 22-24, 2008 November 10-12, 2008

Las Vegas, NV

Indicates a Training Week course. See page 3 for details.

For the latest information on this course and to download a PDF brochure, visit: www.sqetraining.com/cmi

TO REGISTER CALL 888.268.8770 OR 904.278.0524 • WWW.SQETRAINING.COM FOR MORE INFORMATION ABOUT ON-SITE TRAINING, EMAIL ONSITETRAINING@SQE.COM







CMMI® & SOFTWARE MEASUREMENT

2 Days Topical Outline:

The Need for Measurement

Why do we measure? Meeting business needs Applying measurement in software development and maintenance What to measure and what not to measure

Measurement Categories

Productivity measures Quality measures Cost and time measures Development vs. maintenance measures Units of measurement—good, better, and best

Exercise—Calculate example project metrics

Selecting the Measurements

Establishing business value The goal-question-metric paradigm Customize practices to organizational maturity Establish baseline performance measures

Exercise—Use business goals to select measurements

Implementing a Successful **Measurement Program**

Getting started Key steps to success Implementation strategies Roadblocks, challenges, and hurdles Building the measurement team Establishing a roll-out plan Opportunities for automation

Exercise—Organization readiness profiling

Reporting

Users of reports (target audiences) Features, benefits, and applicability Quantitative and qualitative analysis Report examples

Performance Benchmarking

Using best practices for process improvement How to compare your projects and your organization

Accessing industry benchmark data

Exercise—Establish performance improvement benchmarks

BUSINESS-DRIVEN SOFTWARE MEASUREMENT NEW

Develop and Improve your Software Measures and Metrics

- Develop software metrics that enhance the business value of software development
- Learn the steps for implementing a successful measurement program
- Customize a measurement strategy for your project, team, or organization
- Design strategies for metrics-based performance improvement and benchmarking

David Consulting Group

www.daridcoudinggroup.com

Measure What is Important to the Business

Establishing effective software measurements is critical for the success of software development projects and software process improvement strategies. In this interactive course, learn how to develop successful measurements to support your organization's business goals and drive business value in your organization. "Business-Driven Software Measurement" introduces the fundamentals of establishing objective-based measurements for your software organization at the project level, department level, and throughout your organization.

Learn about the different measures of productivity, quality, cost, and time along with guidelines for when—and when not—to use these measures. Discover the metrics needed to evaluate software development projects as well as software maintenance work. Practice what you have learned in small group exercises and gain unique insights into the challenges and benefits of collecting, interpreting, and reporting measurement data and resulting metrics.

Develop and Deploy a Software Measurement Program

Whether installing a completely new measurement program or introducing new, key measures into your organization, you need a step-by-step approach to be successful. Learn how to decide what metrics are important, where to begin, and how to overcome the almost inevitable organizational, cultural. and technical issues you will face. Take back the templates, definitions, data collection forms, questionnaires, and reports necessary to reach your goal.

Who Should Attend

This course is for software managers, project managers, QA managers, measurement specialists, and anyone interested in improving software measurement within their project, team, and organization.

This course is recognized for credit toward the Certified Software Measurement Specialist (CSMS) accreditation from the International Function Point Users Group (IFPUG). For more information, visit www.ifpug.org/certification/csms.htm.

ABOUT THE INSTRUCTOR



Sheila Dennis is the Vice President, David Consulting Group (DCG) and Director of Services. Software Measurement and Software Sizing Practices. She currently manages the global software measurement sizing and practice for DCG and has performed benchmarking and measurement consulting services for large IT providers, worldwide financial and insurance

firms, and industry leaders in the telecommunications field. She is a recognized author, instructor, and invited speaker at metrics conferences.

Tom Cagley is an additional instructor for this course.

PUBLIC COURSE OFFERINGS

Boston, MA

September 25-26, 2008 Las Vegas, NV November 13-14, 2008

Indicates a Training Week course. See page 3 for details.

For the latest information on this course and to download a PDF brochure, visit: www.SQETraining.com/smp

NEW FALL 2008 SCHEDULE

SOFTWARE ENGINEERING TRAINING

Accelerate Your Career & Empower Your Team



Mastering the Requirements
Process UPDATED

Requirements Modeling UPDATED

Introduction to the Capability Maturity Model Integration® (CMMI®) NEW

Business-Driven Software Measurement NEW

BUILD-YOUR-OWN TRAINING WEEK

Maximize the impact of your training by combining courses in the same location to create a customized training week.

3 DAYS - \$1995

Managing the Requirements Process Introduction to the Capability Maturity Model Integration® (CMMI®)

2 DAYS — \$1495

Requirements Modeling

Business-Driven Software Measurement

REQUIREMENTS TRAINING WEEK COURSES

Mon. - Wed. Managing the Requirements Process

Thurs. - Fri. Requirements Modeling

CMMI® & SOFTWARE MEASUREMENT TRAINING WEEK COURSES

Mon. - Wed. Introduction to the Capability Maturity Model

Integration® (CMMI®)

Thurs. - Fri. Business-Driven Software Measurement

TRAINING LOCATIONS

REQUIREMENTS

September 8–12, 2008 Washington, DC October 6–10, 2008 San Diego, CA

CMMI® & SOFTWARE MEASUREMENT

September 22–26, 2008 Boston, MA November 10–14, 2008 Las Vegas, NV

Training Course Fee Includes*

- Tuition
- Course Notebook
- · Continental Breakfasts and Refreshment Breaks
- Lunches
- · Certificate of Completion
- · Reference book (if applicable) Textbooks are distributed for public courses only

*Your registration fee includes \$39 for a one-year digital subscription to Better Software magazine. If you are a current subscriber, your subscription will be extended an additional ten issues.

Training Course Schedule

7:30 a.m. - 8:30 a.m. Registration (first day only) and Continental Breakfast

8:30 a.m. - 12:00 p.m. Course 12:00 p.m. - 1:00 p.m. Lunch 1:00 p.m. - 5:00 p.m. Course

Satisfaction Guarantee: SQE Training is proud to offer a 100% satisfaction guarantee. It's part of our commitment to provide you with the highest quality education and training products. If we are unable to satisfy you, we will gladly refund your registration fee in full.

Public Training Policies: SQE Training reserves the right to make changes in course schedules, dates, locations, and accommodations and will make every effort to notify students within a reasonable period of time. However, SQE Training is not responsible for personal travel, accommodations, or other incidental expenses in connection with changes to a course.

Cancellation Policy: Attendee substitutions are permitted. Registrants who fail to attend are subject to the full fee if they have not obtained a cancellation code from SQE Training at least six business days prior to the event start date. To obtain a cancellation code, call 904.278.0524 or 888.268.8770.

Register Early: The number of students per course is limited, and many courses fill to capacity. Register early to ensure your space in a given course.

Forms of Payment Accepted:

- · Visa, MasterCard, or American Express
- Check or company purchase order is accepted. However, payment must be received before course registration is confirmed.

Confirmation: After payment, you will receive a confirmation notice containing course details (e.g., hotel, accommodations). Please bring the letter to the course for admittance.

EASY TO REGISTER



Unline:
www.SQETraining.com/register



Ehone: 888.268.8770 904.278.0524



sgeinfo@sge.com

ON-SITE TRAINING

For more information about on-site training courses, contact SQE Training at 904.278.0524 or 888.268.8770 or email onsite training@sqe.com.

SQE TRAINING

SQE Training 330 Corporate Way, Suite 300 Orange Park, FL 32073 Presorted Standard U.S. Postage Paid Gainesville, FL Permit No. 726

IF ADDRESSEE IS NO LONGER EMPLOYED:

Re-route to Director of Software Development