Presentation of SSQC to Potential Clients
About SSQC

- Software Systems Quality Consulting
- Located in Silicon Valley, San Jose, California, USA
- Since 1990 - assisting organizations to develop and improve their software, systems and hardware engineering and management practices

- Agile/Lean
- SEI CMMI
- ISO 9001:2008
- SQA and Testing
- BPR and Benchmarking
- Assessments/Appraisals
- Process Improvement Consulting
- Education and Training

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The SSQC Difference: 1

- Breadth of experience
  - Practitioner, academic, consulting, training
  - The number of industries served
  - International and US
  - In organizations of all sizes
  - Internationally recognized experts in CMMI and ISO 9001/90003
Serving companies in a wide variety of industries

- Data and Telecommunications
- Software
- Semiconductor
- Manufacturing
- Services
Serving Data and Telecomm companies

- Networks and Wireless
- Carriers
- Voice Messaging
- Routers

Difference: 1
Serving Software companies

- Financial Applications
- Data Processing
- Desktop Publishing
- Navigational Mapping
- Real-Time and Embedded
- Operating Systems
- Enterprise Applications
- Commercial Applications (COTS)
- Help desk and knowledge management
Serving Semiconductor companies

- Equipment Manufacturers
- ATE Manufacturers
- FPGA and ASIC Design Software
- FPGA and ASIC manufacturers
- Industry Groups - SEMATECH and SEMI

Difference: 1
Serving Manufacturing companies

- Automotive
- Computers
- Computer peripherals
- Point-of-Sale devices
- Specialty gases for semiconductors
- Consumer devices
- DoD Contractors
- Medical Devices
Serving Services companies

- Financial Brokerage Services
- Financial Banking Services
- Contract Engineering
- Customer Support
- Order fulfillment
- Logistics
A partial list of SSQC clients

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**Difference: 1**
The SSQC Difference: 2

- Variety of consulting services provided
  - The hands-on support your organization requires both onsite and offsite
    - CMMI implementation consulting
    - CMMI based appraisals
Process Improvement consulting

- Hands-on implementation
  - Planning
  - Project management
  - Facilitation
  - Mentoring
  - Value Stream mapping
  - Documentation development
  - Technology selection and introduction

Difference: 2
Model-based appraisals

- Hybrid Multi-Model Assessment – HM²
- Standard CMMI Appraisal Method for Process Improvement (SCAMPI)
- Mini Assessment
- Risk Assessment
- Focused Diagnostic Assessment

Difference: 2
The SSQC Difference: 3

- Professional education and training
  - Complete course materials
    - Course licensing is available
  - Instructors who are internationally recognized subject matter experts
  - Full, proven curriculum
    - For all levels of management, SEPG members, and workers
    - From beginning to advanced skills
CMMI training to support any implementation strategy

• CMMI as a basis for process improvement
• Transition from ISO 9001/9000-3: taking the next step for process improvement
Complete Process Improvement curriculum

- Executive Overview of the CMMI
- SSQC’s Introduction to CMMI – SW/HW/SE – beginning and advanced versions
- Comparing the CMMI and ISO 9001/90003
- Focused Process Area workshops - beginning and advanced versions for CMMI
- Implementation project management for SEPG members
- Software and Hardware Walkthroughs and Inspections
- Value Stream Mapping via the Unified Modeling Language
- Streamlining Process and Project Documentation
- Assessment Team and Audit Team Training

Difference: 3
Specialized and Advanced Topics

- Agile/Lean Development Methods and Product Lifecycles
- Requirements Engineering: A Practical Approach to Modeling and Managing Requirements
- Software Estimation Boot Camp
- Software Measurement Boot Camp
- Advanced Measurement and Management - Toward Quantitative Management of Engineering Processes
- SPICE: An introduction to ISO 15504
- Taking the Next Step – Advancing from ISO 9001 to CMMI
- I-SPI: Integrated SPI based on IEEE/ISO 12207
- Riding the Wild Spaghetti: Addressing the proliferation of International Standards
SSQC’s approach to training

- Unique graphical approach to representing and communicating improvement models
  - Simplifies the content of the models
  - Minimizes language dependency
  - Accelerates mastery and maximizes retention

- Fully integrated exercises, practical examples, and interactive workshops that reinforce concepts
SSQC strategic relationships

- When additional resources or specialized skills are required, SSQC draws on established relationships, e.g.
  - Object Oriented Analysis and Design
  - Software Reliability, Safety and Related Metrics
  - Software Testing Automation
  - Additional Lead Appraisers for large appraisals
SSQC strategic relationships - continued

To remain on the leading edge of software engineering trends, SSQC partners with professional organizations and academic institutions

- AMERICAN ELECTRONICS ASSOCIATION (AEA)
- AMERICAN SOCIETY FOR QUALITY (ASQ)
- ISO/IEC JTC 1/SC7 SOFTWARE ENGINEERING STANDARDS - UNITED STATES TAG
- NATIONAL ASSOCIATION OF PURCHASING MANAGEMENT (NAPM)
- SEMICONDUCTOR EQUIPMENT AND MATERIALS INTERNATIONAL (SEMI)
- SOFTWARE ENGINEERING INSTITUTE (SEI)
- SOFTWARE PUBLISHER'S ASSOCIATION (SPA)
- SOFTWARE ENGINEERING FORUM FOR TRAINING (SEFT), CALIFORNIA STATE UNIVERSITY, LONG BEACH
- UNIVERSITY OF CALIFORNIA, BERKELEY
- UNIVERSITY OF CALIFORNIA, SANTA CRUZ
SSQC strategic relationships - continued

- SSQC is a licensed and charter member of the SEI Partner Network and provides the following CMMI training and assessment services
  - Introduction to CMMI® for (CMMI-DEV and CMMI-SVC), Version 1.3
  - SSQC's action focused diagnostic mini-assessments for launching a process improvement program based on CMMI
  - SCAMPI B and C appraisals for process improvement and pre-assessments
  - CMMI certification through a SCAMPI SM A v1.3 appraisal, including High Maturity Level 4 and Level 5 Appraisals for CMMI-DEV and CMMI-SVC
  - SSQC’s Bill Deibler has been awarded the SCAMPI High Maturity Lead Appraiser certification from Carnegie Mellon’s Software Engineering Institute
    - This certification recognizes expertise for determining that an organization has demonstrated the capability to quantitatively manage its projects to produce high-quality, predictable results at CMMI Maturity Levels 4 and 5.
Professional contribution

SSQC’s papers and articles have been published in the following journals/books

- COMPLIANCE ENGINEERING
- CROSSTALK - THE JOURNAL OF DEFENSE SOFTWARE ENGINEERING
- ENCYCLOPEDIA OF SOFTWARE ENGINEERING
- IEEE COMPUTER
- INFO WORLD
- MCGRAW-HILL, ISO 9000 HANDBOOK
- MCGRAW-HILL, QUALITY SYSTEMS UPDATE
- SOFTWARE MARKETING JOURNAL
Professional contribution - continued

SSQC’s papers and tutorials have been presented at the following conferences:

- ASQ ANNUAL QUALITY CONGRESS
- ASQ ANNUAL QUALITY AUDIT CONFERENCE
- CEEM’S IMPLEMENTING ISO 9000 IN THE SOFTWARE INDUSTRY
- WORLD CONGRESS FOR SOFTWARE QUALITY
- INTERNATIONAL CONFERENCE ON SOFTWARE QUALITY
- PACIFIC NORTHWEST SOFTWARE QUALITY CONFERENCE
- SOFTWARE PUBLISHER’S ASSOCIATION CONFERENCE
- SOFTWARE QUALITY WEEK (SOFTWARE RESEARCH INC.)
- SOFTWARE ENGINEERING INSTITUTE’S SEPG CONFERENCE
- SOFTWARE ENGINEERING INSTITUTE’S EUROPEAN SEPG CONFERENCE
- STC-SOFTWARE TECHNOLOGY CONFERENCE
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