



The next ASQ Boulder Section meeting will be held on Thurs, Sept 22nd, location TBD with the tutorial starting at 5:30pm and the main talk at approx 6:20pm

JUNE CHAIR MESSAGE

As another ASQ Section 1313 fiscal year has drawn to a close, I would like to personally thank each of you who has contributed to the success of our section. Your contributions have come through your attendance, response to surveys, being a speaker, and contributions as part of the leadership team. We will take your inputs from surveys to continually improve our speaker topics in the coming year.

Our chair-elect for next year is Mark Soderberg of the Covidian Corp Boulder Division. Please help support Mark and the rest of the Boulder Section management team for next year. Moving forward, we must have your support and involvement to be successful. There is a core group of people who have been and continue to support our section on the leadership committee. We need your engagement. Remember that being part of the leadership team also provides an added opportunity for adding to your recertification units (RUs) for your ASQ certification renewal. Without increased member engagement, our section cannot continue to provide the services that it does for meetings with pertinent topics, educational opportunities, Saturday examinations, etc. We are a volunteer organization.

Please consider this opportunity as part of your professional growth plan for the next year. You may contact me with any questions that you may have at rebeccajessep@hotmail.com or 303-587-7067.

Sincerely,
Rebecca Jessep, ASQ Section 1313 Chair

Newsletter Summer Break – Look for a new copy in mid-August, the volume 18 series. GN

ASQ'S Customer and Member Center:

E-MAIL: help@asq.org
PHONE: 800-248-1946
FAX: 414-272-1734
USPS ASQ Communications
MAIL: 600 N. Plankinton Ave.
P.O. Box 3005
Milwaukee, WI 53201-3005

We suggest that you go to the ASQ National website at: www.asq.org for complete ASQ national news, regional event links, books, courses, yearly certification testing, re-certifications, conferences, ASQ Divisions and on-line membership forms, including member upgrades and what is needed to update your own member profile. And, while you are on the internet, be sure to visit **ASQ Boulder Section website** at: www.asq1313.org

Did You Know? ASQ Divisions and Sections offer approx. 70 scholarships, some of which go untapped due to limited number of student applicants.

ASQ National News

A Denver Area ASQ Book Author and ASQ Fellow Passes

Henry (Hank) Leever of the Denver Section passed away recently. He was retired from the USAF Accounting Center, was the author of two widely used books on Quality and was a long time ASQ member and an ASQ Fellow.

Hank was instrumental in getting the ASQ Administrative Division converted into the ASQ Management Division. He was the Denver Section Chair in 1976 and was very active with the former Rocky Mountain Quality Conference committee, Chairing that Quality conference in the mid-1970's, also.

news continued on page 4

ASQ #1313 Officers & Committee Chairs 2009-10

| | | | |
|--|--|---|--|
| <p>ASQ Section 1313 Boulder, CO</p> | | <p>Title: Newsletter Editor Name: Gerry Naugle Phone: 303-591-2830 e-mail gnaugle@earthlink.net</p> | <p>Title: SMP Name: Mike Ferraro Phone: 720-684-2035 E-mail: michael.a.ferraro@seagate.com</p> |
| <p>Title: Chair Name: Rebecca Jessep Phone: 303-587-7067 E-mail: rebeccajessep@hotmail.com</p> | <p>Title: Vice Chair Name: Joe Wojniak Phone: 303-530-6581 E-Mail: joe.wojniak@yahoo.com</p> | <p>Title: Certification Name: Wells Lange Phone: 303-604-6694 E-mail: wellsolly@comcast.net</p> | <p>Title: Programs Name: Guy Harris Phone: 303-470-7020 E-Mail: harrisgb@comcast.net</p> |
| <p>Title: Secretary Name: Melinda Schones Phone: 303-359-5531 E-mail: mschones2002@yahoo.com</p> | <p>Title: Treasurer Name: Ewald Schelert Phone: 303-702-9009 E-mail: Schelert@mesanetworks.net</p> | | |
| <p>Title: Re-Cert Name: Larry Derouin Phone: 303-431-9287 E-Mail: LWDerouin@comcast.net</p> | <p>Title: Internet & Website Name: Arnold Miller Phone: 303-466-2631 E-Mail: arn_miller@earthlink.net</p> | | |
| <p>Title: Publicity and VOC Name: Byron Murray e-mail: byron.murray@yahoo.com</p> | <p>Title: New Members Name: e-mail:</p> | | |
| <p>Title: Financial Auditing Name: Wells Lange Phone: 303-604-6694 wellsolly@comcast.net</p> | <p>Title: Education Chair Name: John Beachman Phone: 720-313-2746 e-mail: john.beachman@covidien.com</p> | | |

| | |
|-------------------------------------|-------------|
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Upcoming ASQ #1313 Tutorial & Main Presenters as of: June 12th, 2011

Sept 22nd Doors open at 5:30pm

5:35 PM Tutorial: Gary Denniston, Covidien/Boulder on: “Statistics for Limited Sample Sizes”

6:20 PM Main Talk: Guy Harris: *General Topic: Overview of Medical Device Industry*

MBNQA For info on the Malcolm Baldrige National Quality Award Program, visit www.quality.nist.gov

CPEX For info on the Colorado Performance Excellence Program (Colorado State quality and business performance program), visit www.coloradoexcellence.org

Contact: Executive Director, Mr. Tom Mauro tmmauro@coloradoexcellence.org (or) at: 303-893-2739
Please see [page 19](#) of this newsletter for the most recent information on upcoming 2011 CPEX activities and events. **The Boulder ASQ Section is a sponsor of the Colorado CPEX Organization.**

ASQ National News

continued from page 1

The Triple Bottom Line and Quality

ASQ Weekly spoke with John Elkington, creator of the triple bottom line, who tells us how it fits with quality. He ties it all together with SR in “[Quality and SR: Tenuous Ties?](#)”

BONUS! This month's member gift is a free, comprehensive collection of social responsibility webinars that will teach you the essentials of SR through research, standards, books, and expertise, as well as other resources available from ASQ.

Updates to ASQ Recertification Journal

There are changes to the recertification journal categories, including more opportunities for RU credits, and the categories have been better de-fined to make recertifying easier. The 18 RU credit amount remains the same. To order a new journal, call the ASQ Customer Care at: **1-800-248-1946** and ask for item **B0525**

ASQ Boulder Section

P.O. Box 21595

Boulder, CO 80308-4595

Note: All education & course registration materials should be sent to Section Education Chair (please see the last page of the education section for contact information)

Unemployment Program for Membership Available from ASQ

ASQ headquarters is offering resources for members who have encountered job loss. One benefit for those who want to retain their membership, but have difficulty renewing because they are currently unemployed, are discounted membership dues. Participating members receive a discount on their membership renewal based on consecutive years of membership. Currently, membership dues are \$129 for current Full (formerly Regular), Senior, and Fellow members. For more information, and to check out other resources available, visit <http://work.asgquality.org>.

ASQ BOULDER SECTION #1313 COURSE DESCRIPTIONS *Revised 06-12-2011*

1301 – CERTIFIED QUALITY ENGINEER (CQE) REVIEW

This is a refresher course for those preparing to take the ASQ Certification exam. This course is advanced and intense. The instructor has an excellent text specific to this course, which is provided at no additional cost. It is recommended the student bring a copy of Juran's Quality Handbook, 5th ed., which can be purchased for about \$135 through ASQ but used copies can often be found for much less on the Internet. The students must bring their own calculator. For additional details or questions, contact the course instructor or the Section Education Chair (his contact information is on page 10).

1305 – CERTIFIED SOFTWARE QUALITY ENGINEER (CSQE) REVIEW

This is a refresher course to aid in your preparation for taking the ASQ Certification exam. The Certified Software Quality Engineer is a professional who has comprehensive understanding of software quality development and implementation, a thorough understanding of software inspection, testing, verification, and validation, and can implement software development and maintenance processes and methods. The exam requires you have minimum software testing or development experience and you must meet certain minimum requirements. Each student needs to purchase the latest edition of the CSQE Primer published by the Quality Council of Indiana (QCI) prior to the first class (cost is approximately \$70). To order, contact QCI at 1-800-660-4215 or www.qualitycouncil.com. For additional details or questions, contact the course instructor or the Section Education Chair.

1322 – ASQ Exam BoK: Quality Concepts, Management and Leadership

This course covers the Body of Knowledge (BoK) any quality professional should know about quality. This covers the history of quality from philosophies to current day methodology. This course is a must for anyone pursuing ASQ Certification or seeking a professional quality career.

Cost includes materials fees

Prerequisites: None

Course Outline:

- Management and Leadership [Organization Structures; Strategic Planning, Team Processes]
- The Quality System [Quality Philosophies; System Models; Measuring Effectiveness]
- Customer Focus
- Supplier Chain Management
- Product and Process Design
- Product and Process Control
- Continuous Improvement
- Management Tools [The Seven Classic Quality Tools; Basic Management and Planning Tools; Process Improvement Tools; Innovation and Creativity Tools]

1323 – ASQ Exam BoK: Statistical Principles, Techniques and Applications

Learning the principles of statistics in an understandable way as well as practical applications in the workplace. From understanding variation to hypothesis testing to process capability studies -- this course covers it all. The course covers the Body of Knowledge (BoK) required for ASQ Certification Exams. This is also excellent for any quality professional seeking a core understanding of the quantitative methods used in any improvement strategy such as Six Sigma or Lean covers the history of quality from philosophies to current day methodology. This course is a must for anyone pursuing ASQ Certification or seeking a professional quality career.

Cost includes materials fees

Prerequisites: Ability to understand basic mathematical expressions would be useful as well as ability to use a hand-held calculator.

Course Outline:

- Descriptive Statistics [Measures of Location; Measures of Spread; Shape of Distribution; Normal distribution]
- Concepts of Probability
Statistical Decision-making [Central Limit Theorem; Test of Hypothesis; Alpha and Beta Risks]
- Statistical Process Control (SPC)
- Analyzing Process Capability
- Design of Experiments (DOE) [Full Factorials; ANOVA Tables; Partial Factorials (Taguchi)]
- Relationship Between Variables
- Reliability Statistics

1324 – ASQ CQE Book of Knowledge (BoK) Review

This course is designed to help you properly prepare to take and pass the CQE examination. The objective of the course is to help you put together a study plan. An overview of the Body of Knowledge (BOK) covered by this exam will be given. Detail study of the BOK is the responsibility of the student. Included in this course are effective test taking strategies

Cost includes materials fees

Prerequisites: None; however, the following ASQ Boulder Section courses would help those needing more detail knowledge:

- 1322 - ASQ Exam BoK: Quality Concepts, Management and Leadership
- 1323 - ASQ Exam BoK: Statistical Principles, Techniques and Applications
- Also there are requirements to be able to take the CQE exam.
- See ASQ website <http://www.asq.org/certification/quality-engineer/>

Course Outline:

- How to gather reference material
- How to do a self assessment
- How to develop a study plan
- The Body of Knowledge [Management and Leadership; The Quality System; Product and Process Design; Product and Process Control; Continuous Improvement; Quantitative Methods and Tools]
- What to take to the exam
- Test taking strategies

INSTRUCTORS & COURSE DESCRIPTIONS: A list of instructor biographies and course descriptions can be found on the ASQ Boulder Section web site, <http://www.asq1313.org/> **COURSES LOCATIONS:** Contact the ASQ Boulder Education Chair, John Beachman at: john.beachman@covidien.com or 303-530-6346 to see if the class you want can be made available in the Colorado Springs, Denver, Loveland or Ft. Collins area.

2011 ASQ Boulder Section Course Offerings

Updated 06-12-2011

| Course Name | Instructor | Course Fee (1) | Exam Date | ASQ Exam Application Deadline | Course Dates & Times | Course Registration Deadline |
|--|--|---|-----------|-------------------------------|----------------------|------------------------------|
| 1301 - Certified Quality Engineer (CQE) Review | Monrad Monsen 303-272-9612 Location: TBD | \$400 members / \$450 others | | | | |
| 1305 - Certified Software Quality Engineer (CSQE) Review | Arnold Miller 303-466-2631 Location: TBD | \$400 members / \$450 others | | | | |
| 1322 - ASQ Exam BoK: Quality Concepts, Management and Leadership | Ron Sedlock 303-716-5873 or 303-587-9153 Location: TBD | \$270 per student + \$25 material = \$295 Total | | | | |
| 1323 - ASQ Exam BoK: Statistical Principles, Techniques and Applications | Ron Sedlock 303-716-5873 or 303-587-9153 Location: TBD | \$270 per student + \$25 material = \$295 Total | | | | |
| 1324 - ASQ CQE Book of Knowledge (Bok) Review | Ron Sedlock 303-716-5873 or 303-587-9153 Location: TBD | \$135 per student + \$15 material = \$150 Total | | | | |

(¹) Course fee for ASQ or other professional society member/non-member. (2) Cost of primers, texts, workbooks, etc. are not included and must be purchased by the student prior the first class. Contact the Boulder Education Chair, **John Beachman**, (his contact information below) for details. FOR INFORMATION UPDATES, please go to the Boulder Section web page: <http://www.asq1313.org/courses.html>

If there is a class you need but is not listed above. We may be able to offer that class in the future.

COURSE REGISTRATION INFORMATION

You do not have to be a member of ASQ to attend a class however, members of ASQ and other professional societies receive a discount for classes. Local Quality professionals teach all classes in the Boulder/Longmont/ Broomfield area unless otherwise noted. We contact you at least two weeks in advance of the class start date for the exact location. Classes are typically held at a company that employs one of the students. You may nominate your company for hosting a class. Directions and registration confirmations are provided. Participants receive a certificate upon completion of the course. We need a minimum of about 4 - 5 students to hold a course and we reserve the right to cancel or postpone classes not having enough students. A full refund will be given if minimum class registration requirements are not met. If you cancel within two weeks prior to a class beginning you may not receive a refund.

ASQ CERTIFICATION REVIEW COURSES: These courses are intended as a refresher course for those preparing to take the ASQ Certification exam. These courses are typically not introductory and are intended for people with either academic and/or on the job experience. NOTE: Enrollment in a class DOES NOT enroll the student for the certification exam. The student is responsible for confirming exam dates and application deadlines with ASQ Headquarters. Qualification requirements for sitting for an exam and information regarding exam applications may be obtained by calling ASQ Headquarters at 1-800-248-1946 or go to <http://www.asq.org>

ASQ #1313 COURSE REGISTRATION FORM

Please complete the following information as thoroughly as possible. In case of a schedule change or cancellation, we really appreciate two phone numbers to contact you.

Student's Name: _____ ASQ Membership #: _____

or other Society and #: _____

Title: _____

Company Name: _____

Address: _____

Daytime phone: _____

Night time phone: _____

E-Mail: _____ or FAX: _____

Course # and Name: _____

Course Start Date: _____

Course Fee: \$ _____ (ASQ Member) \$ _____ (Non-member)

Please enclose a check payable to "ASQ Boulder Section" and contact the Boulder Section Education Chair John Beachman at: john.beachman@covidien.com (or) 303-530-6346, to reserve your spot in the course that you want. Please send checks to the address below.

ASQ Section 1313 Education c/o Mr. John Beachman 2031 Amethyst Dr Longmont, CO 80504

GUARANTEE: If you pay for and take one of our ASQ Certification review courses and still fail the Certification Exam, you may retake the course for free as many times as you need. The instructor reserves the right to charge for course materials (e.g., handouts, etc.). Your ASQ section leadership is committed to meeting your quality-related education and certification needs. If you have any questions about a particular course, please contact the instructor or the Boulder Section Education Chair (contact information above).

Non-ASQ Boulder Section (or) Non-ASQ Denver Section Training Resources

From: the quality Catalyst Inc.

Please see the following three events coming up:

1. Certified Manager of Quality/Organizational Excellence Review Class

I am offering a 24-hour review class for those interested in becoming a Certified Manager of Quality/Organizational Excellence (CMQ/OE). This class consists of three 8-hours sessions on **July 15, August 12 and September 16**. This class will prepare those taking the exam on October 1st. The class will be hosted by Baxa Corporation in Englewood. Let me know if you have an interest. I do limit the number of attendees. Cost is \$695 which includes a reference workbook

2. Colorado Quality Executive Network (CQEN)

The next session of the Colorado Quality Executive Network (CQEN) will be on Tuesday, **July 19th**. This is a group of top executives who share ideas on quality issues. Membership to the CQEN is by invitation only. Please pass on this information as appropriate. Any questions should be directed to me.

3. World-Class Service Quality

Most improvement strategies such as six sigma or lean are manufacturing-based. Today, most people (even in a manufacturing company) are service providers. On Friday, **July 22** I am offering an 8-hour class on World-Class Service Quality. This class is the missing catalyst in most quality management systems.

If you have any other quality training, let me know. I am always willing to offer advice to those seeking ASQ Certification. This is a free service.

Best Regards, Ron Sedlock
the quality Catalyst
phone: 303-716-5873 or 303-587-9153 (cell)
www.thequalitycatalyst.com

I only have a couple of seats left for the **Certified Manager of Quality/Organizational Excellence (CMQ/OE)** review class. This class consists of three 8-hours sessions on **July 15, August 12 and September 16**. This class will prepare those taking the exam on October 1st. The class will be hosted by Baxa Corporation in Englewood.

If you want to attend, you need to contact me as soon as possible.

Ron Sedlock

ASQ 2011 Certification Exams Schedule

| Certification | Application Deadline | Exam Dates |
|--|-----------------------------|-------------------------|
| 1. CQT - Quality Technician | Every January and August | Every March and October |
| 2. CRE - Reliability Engineer | | |
| 3. CQI - Quality Inspector | August 12, 2011 | October 1, 2011 |
| 4. CMQ/OE – Manager of Quality & Organizational Excellence | | |

| | | |
|--|---|---|
| 5. CSSBB - Six Sigma Black Belt 6. CHA - HACCP Auditor 7. CBA - Biomedical Auditor 8. CMBB - NEW Master Black Belt | | |
| 9. CQE - Quality Engineer 10. CQA - Quality Auditor 11. CSQE - Software Quality Engineer 12. CQIA – Quality Improvement Associate 13. CCT - Calibration Technician 14. CQPA - Quality Process Analyst 15. CSSGB - Six Sigma Green Belt 16. CPGP - Pharma GMP Professional | Every April and October April 15, 2011 October 14, 2011 | Every June and December June 4, 2011 December 3, 2011 |

Colorado Quality Executive Network (CQEN)

The next session of the Colorado Quality Executive Network (CQEN). This a group of top executives who share ideas on quality issues. Membership to the CQEN is by invitation only. Please pass on this information as appropriate. Any questions should be direct to me.

Ron Sedlock, the quality Catalyst (contact information immediately above)

Quality Related Careers Job Postings



We suggest that you frequently go to: www.nrel.gov use the employment link

NEON in Boulder JOB OPENING

SYSTEMS ENGINEER

Overview

The National Ecological Observatory Network (NEON) is a \$430 million dollar observatory project dedicated to understanding how changes in climate, land use and invasive species impact ecology. For the next three

decades NEON will collect a comprehensive range of ecological data on a continental scale across 20 eco-climatic domains representing US ecosystems. NEON will use cutting edge technology including an airborne observation platform that will capture images of regional landscapes and vegetation; mobile, relocatable, and fixed data collection sites with automated ground sensors to monitor soil and atmosphere; and trained field crews who will observe and sample populations of diverse organisms and collect soil and water data. A leading edge cyberinfrastructure will calibrate, store and publish this information. The Observatory will grow to 300+ personnel and will be the first of its kind designed to detect and enable forecasting of ecological change at continental scales.

Summary:

NEON is looking for an individual to be part of the Systems Engineering team that is tasked with specifying the observatory system, integrating the observatory elements and sub-systems, verifying the system requirements and commission the system in the field. The successful candidate will have hands-on experience analyzing systems, performing requirements analysis and management, performing system integration, verification and validation, troubleshooting issues, commissioning systems. The individual will be capable of analyzing and documenting system architecture and requirements, perform reliability analysis and Failure Mode and Effects Analysis (FMEA), contributing to and leading development of integration and system level test cases and procedures, perform and lead test activities on the different observatory systems in the lab or in the field, perform requirements traceability, lead troubleshooting activities and track issues to closure. The individual will be capable of accepting different task out of his/her comfort zone and base knowledge. This is a hands-on position requiring multitasking, creative out-of-the-box thinking and commitment to own and lead a wide range of systems engineering activities including test documentation development and test planning, FMEA and reliability analysis, integration and system test execution, troubleshooting issues, commissioning of observatory system in the field.

Essential Duties and Responsibilities:

- Analyze and document system architecture, external interfaces and system requirements
- Identify requirements issues and suggest corrections
- Perform and/or lead FMEA and reliability analysis – derive requirements and test cases
- Lead development of integration and system test cases and procedures
- Specify and build/setup/configure/troubleshoot test system
- Execute and document integration and system verification and validation tests
- Perform requirements traceability
- Identify, track and resolve issues
- Participate in system engineering reviews
- Analyze and understand Operations Concept
- Support development of and execute commissioning tests in the field – based on Operations Concept
- Support the systems engineering team in executing risk management (identification, developing mitigation, etc.)
- Support implementation of program Product/Quality Assurance processes to include auditing and allocation of PA requirements across project functions and support teams
- Support the systems engineering team in project oversight of Integration, Verification and Commissioning test activities

Required Experience:

- 5 - 10 years experience in a design and development environment
- Proficient in the following areas:
 1. Analysis and integration of complex, distributed systems
 2. Systems engineering plans and processes

3. Requirements analysis and management
4. Requirements verification and validation, incl. writing system test cases based upon system requirements and system operational concept
5. System architecture definition and Interface Control Documents (ICDs)
6. Writing integration test cases based upon system architecture and ICDs
7. Hands-on system integration and verification test execution and troubleshooting
8. Design review process execution/facilitation
9. Configuration management and quality management plans and processes

Education:

- Bachelor of Science degree in Electrical Engineering, Mechanical Engineering, Aerospace Engineering or other equivalent technical discipline

Preferred Experience:

- 5 plus years experience in the systems engineering discipline
- Masters degree in Electrical Engineering, Mechanical Engineering, Aerospace Engineering or other equivalent technical discipline
- FMEA and reliability analysis experience
- Writing detailed test procedures for consistent test execution
- Specifying and designing test hardware and software
- Building and configuring test systems
- Developing and using automated functional testing tools/scripts
- Evaluating, recommending and implementing automated test tools and automated test scripts
- Expertise with lab test equipment and product evaluation
- Disciplined in quality and product assurance (ISO9001, Six Sigma)

Apply at www.neoninc.org.

NEON Inc. is an Equal Opportunity Employer. Women, Minorities, Veterans and Disabled Persons are encouraged to apply.

Systems Integration and Test Engineer

Overview

The National Ecological Observatory Network (NEON) is a nonprofit science corporation dedicated to understanding how changes in climate, land use and invasive species impact ecology. For the next three decades NEON will collect a comprehensive range of ecological data on a continental scale across 20 eco-climatic domains representing US ecosystems. NEON will use cutting edge technology including an airborne observation platform that will capture images of regional landscapes and vegetation; mobile, relocatable, and fixed data collection sites with automated ground sensors to monitor soil and atmosphere; and trained field crews who will observe and sample populations of diverse organisms and collect soil and water data. A leading edge cyberinfrastructure will calibrate, store and publish this information. The Observatory will be the first of its kind designed to detect and enable forecasting of ecological change at continental scales.

Summary:

NEON is looking for an individual to be part of the Systems Engineering team that is tasked with specifying the observatory system, integrating the observatory elements and sub-systems, verifying the system requirements

and commission the system in the field. The successful candidate will have hands-on experience analyzing systems, performing integration testing and troubleshooting issues. The individual will be capable of analyzing and understanding system architecture and requirements, perform reliability analysis and Failure Mode and Effects Analysis (FMEA), contributing and leading development of integration and system level test cases and procedures, specify and setup test systems, perform testing on the different observatory systems in the lab or in the field. The individual will be capable of accepting different task out of his/her comfort zone and base knowledge. This is a hands-on position requiring multitasking, creative out-of-the-box thinking and commitment to own a wide range of systems engineering activities including test documentation development and test planning, FMEA and reliability analysis, integration and system test execution, troubleshooting issues, commissioning of observatory system in the field.

Essential Duties and Responsibilities:

- Analyze system architecture, external interfaces and system requirements
- Identify requirements issues and suggest corrections
- Perform FMEA and reliability analysis
- Develop integration and system test cases and procedures
- Specify and build/setup/configure/troubleshoot test system
- Execute and document integration and system verification and validation tests
- Identify, track and resolve test issues
- Participate in system engineering reviews
- Support development of and execute commissioning tests in the field
- Support the systems engineering team in executing risk management (identification, developing mitigations, etc.)

Required Experience:

- 3-5 years experience in a system or device design and test environment
- Proficient in the following areas:
 1. Analysis and integration of complex, distributed systems
 2. Writing system test cases based upon system requirements and system operational concept
 3. Writing integration test cases based upon system architecture and Interface Control Documents
 4. Writing detailed test procedures for consistent test execution
 5. Specifying and designing test hardware and software
 6. Building and configuring test systems
 7. Developing and using automated functional testing tools/scripts
 8. Evaluating, recommending and implementing automated test tools and automated test scripts
 9. Hands-on system integration test execution and troubleshooting
 10. Systems engineering processes
 11. Requirements capture as well as verification and validation of system requirements

Education:

- Bachelor of Science degree in Electrical Engineering, Mechanical Engineering, Aerospace Engineering or other equivalent technical discipline

Preferred Experience:

- Experience in the systems engineering discipline
- FMEA and reliability analysis experience
- Expertise with lab test equipment and product evaluation
- Disciplined in quality and product assurance (ISO9001, Six Sigma)

Apply at www.neoninc.org.

NEON Inc. is an Equal Opportunity Employer. Women, Minorities, Veterans and Disabled Persons are encouraged to apply.

Supplier-Source Quality Engineer

Primary responsibilities:

The role requires leadership, knowledge of technical aspects of manufacturing, passion for improvement, structured data driven mind-set, intellectual accuracy, communication capabilities both internally with different functions and externally with suppliers and also customers.

- Work with suppliers to continuously improve the suppliers quality level, reducing both escaping defects and associated cost of quality
- Ensure material released to production meets all quality requirements
- Perform qualification and surveillance audits of suppliers to verify compliance requirements and expectations
- Assist suppliers in root cause analysis (RCA) and corrective actions (CA) in case of escaping defects, in order to prevent recurrence
- Assist with supplier Identification and a qualification process
- Communicate with suppliers on critical characteristic identification and measurement
- Manage supplier change requests along with changes initiated by the supplier throughout the organization
- Develop and report supplier metrics

To be considered, candidates must have the following background:

Education and Certifications

- Bachelors degree in technical engineering field
- 5 years industrial/manufacturing quality experience

Specific skills and knowledge

- Experience directing supplier quality efforts
- Strong analytical and interpersonal skills
- Ability to travel 50% is required

Contact:

Denise Register Shugerman
Solar Recruiter

Global Recruiters of Boulder
1630 30th street, Suite A-221
Boulder CO 80301
303.545.6602 Office
dregister@grnboulder.com
www.grnboulder.com

Software QA Engineer

About us:

SQA Services, Inc. is a quality, supply chain, and engineering services provider with customers in the healthcare/life sciences, aerospace/defense, and high-technology arenas. SQA serves clients ranging from Amgen to Whirlpool. We manage, through our global network of Associates, coordinated and focused programs in supplier auditing, supplier development and risk assessment, lean/six sigma, inspection, and more. Our clients benefit from the turn-key nature of our global team, who act as extensions of their own supplier quality groups.

Job type:

The **Software Quality Engineer** candidate should have strong exposure to the Code of Federal Regulations (CFR). In addition to regulatory knowledge, working experience within a medical device manufacturer's regulatory group is a plus. Previous experience in auditing or being a member of an audit team is desired. If no audit team experience, at least experience within a GMP-regulated work environment is required. This is a contract job, to last 3-6 months, potentially longer.

Position Description:

Provide software quality engineering support of image guided systems through the product life cycle. Participate in the software assurance of design, manufacturing, and testing of systems and components in company's products. Analyze field data for product improvement opportunity.

Position Responsibilities:

Participate in establishing and reviewing software specifications/requirements for products in Linux OS with C programs. Review changes to designs and processes and assess impact to assure reliability requirements are met, including preparing, reviewing, or approving change controls

Prepare, review, change control and approve verification and qualification test protocols and reports for assigned projects. Provide well-written reports and supporting documentation.

Evaluate field performance of assigned products by analyzing field data. Investigate and evaluate product field problems and nonconforming product. Work with suppliers to resolve product performance issues or failures.

Improve data collection tools, methods and processes for generating failure rates and other product performance data.

Participate in activities to establish and maintain the Risk Management process, including application of ISO 14971. Contribute to hazard assessments and FMEAs.

Prioritize and manage multiple priorities effectively with minimal direction.

Provide solutions to a wide range of difficult challenges. Work independently to determine and develop solutions that are imaginative, thorough, practicable, and consistent with organizational objectives.

Follow all Quality System Practices as defined per Companies practices, policies and Standard Operating Procedures to ensure that FDA, ISO and European Medical Device quality standards and regulations are met where applicable.

Qualifications:

5+ years of previous experience in software quality position in a regulated environment with B.S./B.A./M.S/M.A. Well developed oral and written communication skills.

Experience working with cross-functional design/development teams.
Previous experience in managing multiple projects having multiple tasks.
Working knowledge of FDA Quality System Regulations, Medical Device Directive, ISO 13485, ISO 14971, WEEE, RoHS, and IEC 60601 standards.
Knowledge of statistical techniques and reliability tools. Proficient with data analysis.
Formal training in Six Sigma methods combined with project deployment experience at the green belt or greater level is highly desirable.



Greetings CPEX Community:

I'm writing because I'm involved in the launch of a new fast-track program in Colorado created exclusively for C-Level executives who are serious about leading sustainable transformation of their companies.

Please consider joining a quick, 1-hour lunchtime webinar on Thursday, June 23 that will summarize unbiased, university research that forms the foundation for the new Performance Excellence Incubator.

See add below for more information.
During the first PEI program this fall, participants will customize for their own companies' proven change initiatives used by Baldrige Award winners to achieved unmatched, long-term transformation. Some of the astounding results of these initiatives: 93% revenue growth, 72% sales increase, customer satisfaction [™] 95%.

Don't Let Your Change Initiatives Fail!
Exclusive Lunchtime Webinar for C-Level Executives
Thursday, June 23
Noon - 1 pm
No Charge
Register - [Register Now!](#)
Questions? Call 970-227-9031
Thank you!
Tom Mauro, CEO tmmauro@aol.com
303-893-2739

**Exclusive 1-hour webinar for CEOs,
CFOs and other C-level executives**

**June 23, 2011
12:00 - 1:00 pm**



John Latham



Learn about Colorado's
Performance Excellence
Incubator that will actively help
you lead positive, result-driven
change in your organization.

Don't let your change initiatives fail

This webinar is Step #1 of a proven fast-track system to transform your company into a high-performing organization. You'll learn secrets of Baldrige Award winners – companies that successfully achieved sustainable excellence.

John Latham – Monfort Institute

John Latham has 30+ years experience driving high-performance in companies as a business leader and professor. Today, he is at the University of Northern Colorado's Monfort Institute, which is part of the Monfort College of Business and a Baldrige Award recipient. The Monfort Institute has been a major force in organizing and researching Baldrige Award recipients, including The Ritz-Carlton and Boeing. He knows what business, healthcare, education and non-profits can do to maintain the gain and take it to the next level.

For more information call Lindsay Gilliland at NCBR 970-232-3133

ABOUT COLORADO/ROCKY MOUNTAIN PERFORMANCE EXCELLENCE

Colorado/Rocky Mountain Performance Excellence's vision is to create a culture of excellence that is pervasive throughout Colorado, Montana, and Wyoming. It serves the people of the region by using a proven program of innovation and continuous improvement that generates outstanding results. CPEX/RMPEX fulfills this promise through training and education, assessment and feedback, recognition and awards, networking, and the sharing of best practices. Visit CPEX/RMPEX at www.rmpex.org.

ABOUT THE BALDRIGE PERFORMANCE EXCELLENCE PROGRAM

The award was established during the Reagan administration in 1988 and continued by all other administrations since then. The criteria used to determine award recipients at the various levels are

based on the Baldrige criteria, which any organization can use to improve overall performance. Seven categories make up the award criteria: Leadership; Strategic Planning; Customer and Market Focus; Measurement, Analysis, and Knowledge Management; Workforce Focus; Operations Management; and Organizational Results.

Contact Information

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ABOUT CPEX

Colorado Performance Excellence's vision is to create a culture of excellence that is pervasive throughout Colorado and the Rocky Mountain Region including Montana and Wyoming. It serves the people of the region by using a proven program of innovation and continuous improvement that generates outstanding results. CPEX fulfills this promise through training and education, assessment and feedback, recognition and awards, networking, and the sharing of best practices. Visit CPEX at www.coloradoexcellence.org. CPEX is now operating as Rocky Mountain Performance Excellence for Montana and Wyoming at www.rmpex.org or at the CPEX website.

ABOUT THE BALDRIGE NATIONAL QUALITY AWARD

The award was established during the Reagan administration in 1988 and continued by all other administrations since then. The criteria used to determine award recipients at the various levels are based on the Baldrige criteria, which any organization can use to improve overall performance. Seven categories make up the award criteria: Leadership; Strategic Planning; Customer and Market Focus; Measurement, Analysis, and Knowledge Management; Workforce Focus; Process Management; and Organizational Results.

CPEX Now on Facebook and Linked In

Join us now for updates on Performance Excellence activities happening in your area and the Rocky Mountain Region. CPEX is your "link" to continuous improvement in your organization now!

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