



Harrisburg Section 503

# EDUCATION PROGRAM

2015–2016

GENERAL COURSE OFFERINGS FOR:  
HARRISBURG - LANCASTER -  
YORK - LEBANON - CARLISLE

ASQ CERTIFICATION REFRESHER COURSES

INTRODUCTORY & ADVANCED QUALITY  
COURSES

ON-SITE COURSE OFFERINGS

Enclosed you will find an extensive listing of course offerings by the Harrisburg Section of the American Society for Quality. Course offerings range from an introduction to Quality Assurance/Control activities to more specialized courses in Quality Management, Design of Experiments and preparation classes for ASQ Certification Exams.

All courses offer an exceptional value to participants and are conducted by qualified local quality professionals.

Please follow the enclosed instructions to enroll in a course. Further information and additional copies of the education catalog can be obtained by contacting the Education Chair. Course information and registration is also possible via the Section homepage.

John Sharp  
Education Chair  
717-986-7692 (work)  
717-938-9439 (home)  
[jmsharp@TE.com](mailto:jmsharp@TE.com)

---

**Welcome to the 2015/2016 ASQ Harrisburg Section Education Program  
ASQ Vision — Quality Now More Than Ever!**

In these tough economic times making quality a global priority, an organizational imperative, and a personal ethic, is imperative. The American Society for Quality is the community organization for everyone who seeks quality technology, concepts or tools to improve themselves and their world.

The objective of ASQ and the Harrisburg Section is the advancement of the theory and practice of quality and the allied arts and sciences. Our education committee under the capable leadership of John Sharp, our Education Chair, has once again assembled a program of instruction that supports that vision and mission.

I encourage you to look over this catalog carefully as I am sure that you will discover meaningful opportunities to expand your personal knowledge and skill set as well as opportunities that your organization may wish to take advantage of.

Our purpose is to provide opportunities for improvement that will benefit the community as a whole. Please do not keep this catalog a secret, share it with others in your organization and community who may find benefit from its offerings. All of the offerings herein are available to ASQ members as well as non-members. We can also provide instruction for your organization tailored to fit your specific needs. Please contact John to explore those opportunities.

I, along with the entire Executive Committee of the Harrisburg Section, am committed to fostering the advancement of quality throughout the South Central PA region. Our programs for the coming year are our best efforts to further that end. If we can be of any assistance to you or your organization I hope that you will contact us.

Thank you.

Sally Haldeman  
Section Chair  
ASQ Harrisburg Section

## **ASQ – HARRISBURG MONTHLY MEETINGS**

ASQ – Harrisburg meets monthly on the second Wednesday of each month from September through May.

Information regarding meeting topics and location as well as registration information can be found on the ASQ - Harrisburg website, <http://www.asq-harrisburg.org/> no later than the Monday of the week preceding the meeting date. Registration for monthly meetings ends the Friday before the meeting date.

Guests are always welcome at ASQ – Harrisburg meetings.



## HOW TO ENROLL IN A COURSE

To enroll in one of the general course offerings, use one of the enrollment forms in the center of this brochure. Complete the form and mail to:

Harrisburg Section ASQ  
Attn: John Sharp  
30 Maplewood Drive  
Etters PA 17319

Course information and enrollment instructions are also located on the Section homepage at:

[www.asq-harrisburg.org](http://www.asq-harrisburg.org)

## PAYMENT OF COURSE FEES

Course fees may be paid by personnel check, company check, or by company purchase order. ***Checks for course fees are due by the third class session unless other arrangements have been made with the Education Chair.*** If payment is to be by purchase order, the purchase order should be made out to and mailed to:

Harrisburg Section ASQ  
Attn: John Sharp  
30 Maplewood Drive  
Etters PA 17319

Please do not process your purchase order or write the check for payment until you have been notified by the instructor that the course will be offered.

## ON-SITE COURSE OFFERINGS

Any of the courses listed in this brochure can be presented on-site at your facility, subject to instructor availability. The only requirement for an on-site offering is a minimum enrollment of eight students. For additional information contact the Harrisburg Section Education Chair.

## **ENROLLMENT DEADLINES**

The enrollment deadline for the general course offerings are as follows:

Fall 2015 Session — September 19, 2015

Winter 2016  
Session — January 31, 2016

Enrollments must be received by these dates. Fall Session classes will begin by the end of September, Winter Session classes will begin by mid-February.

## **MINIMUM ENROLLMENTS**

A course will not be offered unless there is a minimum enrollment of five students. For many of the courses we do not know if the minimum enrollment will be met until the actual enrollment deadline or, in some cases, not until a week after the deadline date. If the minimum enrollment is met and the course is to be offered:

### **YOU WILL BE CONTACTED BY THE INSTRUCTOR**

## **COURSE TIMES & LOCATIONS**

All courses will be conducted during weekday evening hours (Mon.–Thurs.) unless special arrangements have been made by the instructor. Normal course length is between 2–3 hours per session. Specific classroom sites will be selected by the instructor and students will be notified when their enrollment in the course is confirmed.

## **TEXTBOOKS**

Numerous course fees include the textbook, while others do not. Textbooks are sold to students at ASQ Harrisburg Section cost.

## **SPECIAL COURSES**

If a course or topic your organization would like to have offered is not listed in this brochure, please contact the Education Chair. Courses tailored to the specific needs of your organization can be arranged depending on the request and ASQ instructor availability.

# WHAT IS CERTIFICATION?

Certification is formal recognition by ASQ that an individual has demonstrated a proficiency within and a comprehension of a specified body of knowledge at a point in time. It is peer recognition and not registration or licensure.

## **Quality Engineer Certification**

Designed for those who understand the principles of product and service quality evaluation and control.

## **Quality Auditor Certification**

Designed for those who understand the standards and principles of auditing and the auditing techniques of examining, questioning, evaluation, and reporting to determine quality system adequacy.

## **Reliability Engineer Certification**

Designed for those who understand the principles of performance evaluation and prediction to improve product/systems safety, reliability, and maintainability.

## **Quality Technician Certification**

Designed for those who can analyze quality problems, prepare inspection plans and instruction, select sampling plan applications, and apply fundamental statistical methods for process control.

## **Manager of Quality and Operational Excellence Certification**

Designed for those who understand quality standards and concepts, implement organizational assessments, and maintain customer satisfaction and focus. Should manage projects supporting strategic objectives and motivate human resources.

## **Software Quality Engineer Certification**

Designed for those who have a comprehensive understanding of software quality development and implementation; have a thorough understanding of software inspection and testing, verification, and validation; and can implement software development and maintenance processes and methods.

## Quality Inspector Certification

Designed for those who, under professional direction, can evaluate hardware documentation, perform laboratory procedures, inspect products, measure process performance, record data, and prepare formal reports.

### WHAT REQUIREMENTS MUST BE MET TO APPLY?

Each requires that you have at least eight years of work experience in one or more areas of the body of knowledge for that particular exam. This includes at least three years in a decision-making technical, professional, or managerial position.

If you have completed a degree, diploma, or certification program beyond high school, you may waive some of the required experience as follows:

|  |         |
|--|---------|
| Certificate from a technical or trade school   | 1 year  |
| Associate degree (college or technical school) | 2 years |
| Bachelor's degree                              | 4 years |
| Master's or doctoral degree                    | 5 years |

### EXAM FORMAT

All examinations consist of multiple choice questions that are carefully designed, reviewed for correctness, and computer-scored and analyzed to properly determine the degree of comprehension of the prescribed body of knowledge. The CQMgr exam does have essay questions.

For more information or for applications call ASQ at 1-800-248-1946

Free brochures on each exam are available by calling ASQ customer service at the above number. The brochures cover costs, application process, requirements to sit for the exams, body of knowledge and sample questions.



# COURSE DESCRIPTIONS

## QCE 100

### *Introduction to Quality Control*

This course is designed for individuals who have not had prior training in the field of Quality control or SPC, and may have had only a limited mathematical background. The course provides a basis for understanding Statistical Process Control.

- Topics:** What is Statistical Quality Control  
Benefits Derived from Statistical Q.C.  
Construction & Interpretation Of X & R Charts  
Frequency Distribution & Normal  
Curve Averages & Individuals  
Introduction to Attribute Charts  
Simulating Processes for Control Charts  
Introduction to Acceptance Sampling Mil  
Std 105E
- Length:** 28 hours
- Cost:** \$300.00 including text
- Instructor:** Harrisburg, Dave Little  
Lancaster, York

# QCE 101

## ***Statistical Process Control***

This course is designed for Technicians, Engineers, And Managers. Shewhart's Control Charts, their construction, application and interpretation are covered in detail. The student will learn how to determine when a process is in "Statistical Control" and be introduced to Process Capability studies. Visual aids are used to reinforce theory. Analysis of data from students own job is encouraged.

Prerequisite: QCE 100 or equivalent experience

Topics:            Fundamental Statistical concepts: Mean, Range,  
                         Standard Deviation, Variance.  
                         Histogram and Frequency Distributions  
                         Process Control Techniques  
                         Control charts—Variables & Attributes.  
                         Statistical Tolerancing.

Length:            28 hours

Cost:                \$325.00 including text

Instructor:        Harrisburg,            TBD  
                         Lancaster, York

# QCE 102

## ***Probability and Sampling***

This course is designed to provide the student with an understanding of the laws of probability, sampling theory and sampling plans for in-plant and supplier control.

Prerequisite: QCE 101 or equivalent

Topics:           Quality Costs  
                  Probability  
                  Sampling Practice  
                  Hypergeometric Distributions  
                  Operating Characteristics Curve  
                  Binomial and Poisson Distributions  
                  Mil Std 105E (Attributes)  
                  Mil Std 414 (Variables)  
                  Other Sampling Plans

Length:           28 hours

Cost:             \$350.00 including text

Instructor:      Harrisburg            TBD

# QCE 103

## ***An Introduction to ISO 9001:2015 Quality Systems***

This course is designed to introduce participants to the ISO 9000 standards. It provides an understanding of the ISO 9000 standards, explains when compliance or registration to ISO is required or desirable, and describes how to document and implement a quality system. Participants receive a detailed analysis of the standards, as well as a comparison to help them understand the relationship among the ISO standards.

QS 9000 Standard will also be covered in this class as it applies to the automotive industry.

Prerequisite: None

Topics:           What ISO 9000 Means to Your Industry  
                    What Companies are Getting Registered  
                    and Why Third-party Audit Concept ISO  
                    9000 Registration Process Do's and  
                    Don'ts of Registration

Length:           15 hours

Cost:             \$225.00 including text

Instructor:      Harrisburg,           John Sharp  
                    Lancaster

*NOTE: This is a Review Course. Individuals registering for this course are responsible for verifying that they have the prerequisite knowledge and experience. The course is fast paced and rigorous. This is not the class to take if you have no previous knowledge or experience in the topics to be covered.*

## **QCE 104**

### ***Principles of Quality Engineering***

This course is designed as a review course for individuals already having a background in the various quality disciplines. The course is demanding and is open to those who are interested in preparing for the Certified Quality Engineering Exam. The individual taking this course should have completed QCE 101, 102, and 107; or their equivalent.

|             |  |
|-------------|--|
| Topics:     | Quality Management, Organization and Tasks<br>Quality Costs<br>Quality Motivation<br>Basic Concepts of Probability<br>Statistical Sampling for Attributes and Variables<br>Design of Experiments<br>Metrology<br>Nondestructive Testing<br>Reliability |
| Length:     | 30 hours   |
| Cost:       | \$425.00 including text  |
| Instructor: | Harrisburg, Lancaster  |
|             | Team Instruction:<br>John Sharp<br>Terri Kinsey<br>Andy Rogish   |

*Note: this is a Review Course. Individuals registering for this course are responsible for verifying that they have the prerequisite knowledge and experience. The course is fast paced and rigorous. This is not the class to take if you have no previous knowledge or experience in the topics to be covered.*

## **QCE 105**

### ***Certified Quality Inspector Refresher***

This course is designed to prepare the student to pass the Certified Quality Inspector exam. The individual taking this course should have completed QCE 100, 101 and 201, or their equivalent.

|             |  |
|-------------|--|
| Topics:     | Technical Mathematics<br>Blueprint Reading<br>Inspection Tools and Equipment<br>Materials and Processes<br>Inspection Planning<br>Inspection Technology<br>Statistics<br>Sampling and Sampling Plans |
| Length:     | 28 hours   |
| Cost:       | \$325.00 including text  |
| Instructor: | Harrisburg, York    Ed Hoehn   |

# QCE 106

## ***Total Quality Management***

This course is designed to provide the practicing Quality Engineer or Quality Manager with a better understanding of TQM concepts. Concentration will be on customer satisfaction, continuous improvement and employee involvement techniques/principles.

Prerequisite: None

Topics:            Management Participation and Leadership  
                      Education and Training  
                      Goals and Objectives  
                      Employee Involvement and Recognition  
                      Customer Emphasis  
                      Supplier Certification and Partnerships  
                      Interlock / Closed Loop System  
                      Quality Function Deployment  
                      TQM and MIL-Q-9858A / ISO 9000 series

Length:            30 hours

Cost:              \$375.00 including text

Instructor:       Harrisburg            John Sharp

# QCE 107

## *Design of Experiments I*

This course is designed to provide the practicing engineer and technician with tools necessary for evaluating data from controlled and uncontrolled experiments. Students will be encouraged to use actual data from their plant.

- Topics:** Reference Distributions  
Experimentation Techniques  
Experimental Error (Noise)  
Central Limit Theorem  
Normal Probability Plots  
Z, t, F, CHI-Square Tests  
Contingency Test  
One Tail & Two Tail Tests  
Null Hypothesis Test  
Interval Estimate of Variance (Confidence Interval)  
Pooled Variance  
Analysis of Variance (ANOVA)  
Randomized  
Randomized Block Design  
    Two Way  
    Latin Square  
    Graeco-Latin Square  
    Hyper-Graeco-Latin Square
- Study Aids:** Hand calculator with statistics capability (a necessity)  
Statistical computer program (i.e., Minitab, Statgraphics, True Epistat or equivalent. Not required but would be helpful). Minitab 10 will be used as part of the Training Program.
- Length:** 26 hours
- Cost:** \$375.00 including text
- Instructor:** Harrisburg, York    TBD  
Lancaster                      Harlan Zimmerman



# QCE 108

## ***Design of Experiments II***

This course is a continuation of QCE-107 and is designed to further the skills of the practicing engineer to evaluate data from experiments.

|             |  |
|-------------|--|
| Topics:     | Review of Analysis of Variance (ANOVA)<br>Balanced Incomplete Block Design Exp<br>(Youden Square)<br>Components of Variances<br>Two Level Factorials<br>Two to the Three Factorial Design<br>Two to the Four Factorial Design<br>Fractional Factorial Design<br>Correlation and Regression<br>Planar and Non-Planar Response Surface<br>Methodology<br>Survey of Taguchi Methods |
| Study Aids: | Hand calculator with statistics capability (a necessity)<br>Statistical computer program (i.e., Minitab, Statgraphics,<br>True Epistat or equivalent. Not required but would be<br>helpful).<br>Minitab 10 will be used as part of the Training Program.   |
| Length:     | 26 hours   |
| Cost:       | \$275.00 (same text as for QCE 107)  |
| Instructor: | Harrisburg, York      TBD<br>Lancaster                      Harlan Zimmerman   |

# QCE 109

## *Principles of Quality Auditing*

This course is designed to provide participants with skills and knowledge in Quality Auditing. Various types of audits will be discussed, as well as how to develop supplier certification partnerships. The course is designed for Quality Auditors, Auditor Trainers, Supplier Quality Engineers, and anyone experienced in and involved with auditing and vendor certification programs. For those participants with previous experience and knowledge, this course will serve as a review for anyone planning to take the ASQ Certified Quality Auditor examination.

Prerequisite: None. (If taking the course as a CQA review, experience with auditing or vendor certification is a prerequisite).

Topics: ISO-9000 Requirements  
Basic auditing techniques  
Dos and don'ts of auditing  
Methods of performing audits  
Internal and external audits  
Types of audits:  
    Systems  
    Process  
    Product  
Auditor characteristics  
Developing supplier certification partnerships  
Documenting the audit  
Reporting audit results and findings  
Follow-up of audits  
Preparation for ASQ CQA exam

Length: 30 hours

Cost: \$425.00 including text

Instructors: Harrisburg, Terri Kinsey  
Lancaster, York

# QCE 111

## ***Introduction To Reliability Engineering***

This course is designed to be a elementary review of various Reliability Engineering and Management disciplines. The course is open to those who are preparing for the Reliability Engineering Certification Examination and to others who are interested in a thorough review in the various reliability disciplines.

Prerequisite: QCE 101 or equivalent

Topics: Reliability Concepts, Probability  
Normal, Lognormal, Binomial, Poisson and  
Weibull Distributions  
Reliability Data Analysis  
Reliability Program Requirements  
Reliability of Design  
Maintainability and Availability

Length: 28 hours

Cost: \$375.00 including text

Instructor: Harrisburg           TBD  
Lancaster                    TBD

# QCE 112

## ***Root Cause Analysis—Getting Started***

Root causes can be uncovered and analyzed by using a number of approaches, techniques, and tools that help the problem-solver get to the heart of the problem. This course is intended to apply various known tools; using case studies to demonstrate application of methods to determine root cause.

Prerequisite: None

Topics:            Practical Problem Solving  
                      Root Cause Analysis  
                      Tools for Problem Understanding  
                      Tools for Possible Cause Generation and  
                      Consensus Reaching  
                      Tools for Possible Cause and Data Collection  
                      Tools for Possible Cause Analysis  
                      Tools for Cause and Effect Analysis  
                      How to Select the Right Tool

Length:            16 hours

Cost:              \$150.00 per part

Instructor:        Harrisburg            Dave Little

# QCE 113

## ***Self-Assessments Based on Baldrige Criteria***

This course is intended to familiarize the student with the Malcolm Baldrige Award application criteria guidelines and through review of published case studies provide guidance as to how to use for self-assessments. Collaborative assessment process uses a combination of synergism, consensus, collaboration, humor and candor to get to the “truth” about the performance. See how fun and friendly the Baldrige process can be!

Prerequisite: None

Topics: Leadership of the Quality Process  
Management of Quality Data  
Quality Planning  
Employee Involvement, Training, Recognition  
and Measurement  
Design, Processing and Supplier Improvement  
Benchmarking  
Quality Improvement Reporting  
Change Agent Process

Length: 15 hours

Cost: \$150.00

Instructor: Harrisburg Don Parrish

# QCE 114

## ***Lean Manufacturing***

(A Systematic Approach to Waste Reduction)

This course is designed to provide an introduction to the concepts of JIT, TQM, TEI, and TPM. The student will leave the course with a basic understanding of the tools used by manufacturing and service industries that have successfully achieved continuous improvement within their organizations.

Prerequisite: None

Topics: Total Productive Maintenance: a tool used by operators to perform preventative maintenance of equipment to ensure defect-free production and zero breakdowns of machines. Just-In Time: a system to deliver products exactly when needed through the elimination of work-in-process inventories. Total Quality Management: an analysis of all facets of an organization's processes that relate to the design, production, sale, delivery, and service for its customers. Total Employee Involvement: an emphasis on the involvement of all of the employees that make up an organization in regard to decision making, internal activity participation, and communication of information.

Note: A brief overview of topics relating to re-engineering, team building, and workplace organization will also be covered in this course.

Length: 30 hours

Cost: \$350.00 including text

Instructor: Harrisburg                      Andy Rogish

# QCE 115

## ***Failure Modes and Effect Analysis (FMEA)***

This course is designed to provide the student with a working knowledge of the FMEA process as it is applied to product, process, or system. References will be made to ISO-9001, and QS-9000 standards. Failure Modes and Effect Analysis is a critical step in the development of a new product or in the modification of existing products. The purpose of the FMEA is to identify potential modes of failure and their relationship to product design or manufacturing process and their effects, if known, on the end use of the product.

Prerequisite: None required

Topics: This systematic approach parallels, formalizes and documents the mental disciplines that an engineer normally goes through in any design process. Discussions on FMEA history, methods, types, responsibilities, documentation, implementation and software will be reviewed and presented.

Length: 12 hours

Cost: \$175.00 including text

Instructor: Harrisburg, David Little  
Lancaster

# QCE 116

## ***Certified Quality Manager Refresher Course***

This course will cover the body of knowledge, as described by ASQ, for the new CQMgr certification exam. Structure of the exam and sample essay questions will be reviewed. The course is designed to supplement an attendees prior quality practices/principles educational and work experience background. Recommended textbooks to be reviewed prior to sitting for the exam will be discussed.

|             |  |
|-------------|--|
| Topics:     | ASQ Body of Knowledge for CQMgr<br>Quality Standards<br>Organizations and Their Functions<br>Quality Needs and Overall Strategic Plans<br>Customer Satisfaction and Focus<br>Project Management<br>Continuous Improvement<br>Human Resource Management<br>Training and Education |
| Length:     | 30 hours   |
| Cost:       | \$425.00 including text  |
| Instructor: | Harrisburg                      John Sharp   |



# QCE 117

## ***Certified Quality Technician Course***

This course will cover the body of knowledge, as described by ASQ, for the CQT certification exam. Structure of the exam will be reviewed. The course is designed to supplement attendees prior quality practices/principles educational and work experience background. Recommended textbooks to be reviewed prior to sitting for the exam will be discussed.

Topics: ASQ Body of Knowledge for CQT  
Measurement Methods/Techniques  
Sampling Plans  
Elementary SPC Methods  
Quality Standards  
Quality Management  
Quality Costs  
Basic Auditing Techniques

Length: 24 hours

Cost: \$325.00 including text

Instructor: Harrisburg, Ed Hoehn  
Lancaster, York

# **QCE 118**

## ***Internal Auditing***

This course will cover the methodology of performing an internal audit for system, process and product. This course is for practitioners of auditing within their organizations. It is not a detailed preparation for the Certified Quality Auditing exam.

- Topics:** Checklists  
Audit Trails  
Report Writing  
Sampling Plans  
Non-compliance  
Notes  
Preparing for the Audit  
Performing the Audit  
Follow-up
- Length:** 24 hours
- Cost:** \$300.00 excluding text
- Instructor:** Harrisburg, John Sharp  
Lancaster, York

# QCE 119

## ***Certified Quality Improvement Associate (CQIA)***

The CQIA exam is designed for people who work outside of traditional quality areas. This course is designed to cover basic knowledge of quality tools and their uses by individuals who are involved in quality improvement projects, but do not necessarily come from traditional quality areas.

The pilot exam was given on January 27, 2001. The experience needed to take this exam is two years of general work experience or at least an Associate Degree from a post-secondary school.

**Topics:** Terms, concepts and Principles  
Benefits of Quality  
Teams and Group Dynamics  
Continuous Improvement Quality  
Improvement Tools Customer-  
Supplier Relationships Preparing  
for the Audit  
Performing the Audit  
Follow-up

**Length:** 24 hours

**Cost:** \$300.00 including text

**Instructor:** David Little

# **QCE 201**

## ***Inspection and Gaging***

This course is designed to provide inspection personnel with an understanding of their role in the quality function and the tools and equipment they have at their disposal.

- Topics:** Needs and Functions  
Specifications, Standards, Tolerances and Language  
100% and Process Inspections  
Basic Principles and Techniques of Measurement  
Attribute Gages  
Surface Texture  
Gage Blocks  
Mechanical Indicating Equipment  
Screw Threads  
Gage Control Systems  
Surface Plate Methods  
Air Gaging  
Optical Gaging Equipment
- Length:** 28 hours
- Cost:** \$300.00 including text
- Instructor:** Harrisburg, Ed Hoehn  
Lancaster, York

# QCE 202

## ***Blueprint Reading***

This course is designed to develop the student's ability to read engineering drawings and shop prints for required dimensions, tolerances, shape description, machining and other essential data. This type of knowledge may be used by the worker or technician for layout, fabrication, construction and assembly by the Quality Control technician or inspector in inspecting and test of single parts or an assembly of many parts.

Topics:            Three View Projection  
                      Dimensioning—Linear and Angular  
                      Decimal, Fractional & Angular  
                      Tolerances  
                      One and Two View Drawings  
                      Taper, Screw Threads, Finish, Sections  
                      Drilling, Tapping, Countersinks, Counterboring  
                      Assembly Drawings

Length:            22 hours

Cost:               \$275.00 including text

Instructor:        Harrisburg,            Ed Hoehn  
                          Lancaster, York

# QCE 203

## ***Geometric Dimensioning and Tolerancing***

This course focuses on the interpretation of engineering drawings which utilize geometric dimensioning and tolerancing according to the latest revision of the standard which is ANSI Y14.5M 1994. It is a comprehensive course applicable to the needs of the Engineer/Designer, inspector and those persons who must read or interpret drawings to this standard. The course reviews the additions modifications and clarifications to the previous revision, Y14.5M 1982, and serves as an entry level course as well as a refresher review of all changes to the previous standard.

Prerequisite: QCE 202 or the ability to read blueprints

Topics:           Datums  
                      Limits of Size  
                      Position Tolerancing  
                      Form Tolerancing  
                      Runout and Profile  
                      Virtual Size

Length:           24 hours

Cost:             \$300.00 including text

Instructor:      Harrisburg,           Ed Hoehn  
                      Lancaster, York

# QCE 301

## ***LinkedIn Success***

Kick-start your business, brand and job search.

- Learn how to navigate the world's largest business networking site.
- Create a powerful personal profile.
- Discover your next job, writing or officiating.

Prerequisite: None

Length: 8 hours

Cost: \$150

Instructor: Harrisburg John Sharp

Work: 986-7692





## Cancellation and Refunds

If insufficient enrollment necessitates canceling the course, any tuition paid will be refunded. Refunds WILL NOT be granted after the third class session unless the course is cancelled by the Society. It is the Society's intention to complete all scheduled courses; however, if extenuating circumstances force cancellation, refunds will be prorated after the cost of materials has been deducted.

**Do you or the business you work for have a product or service to offer area quality professionals?**

**Do you want to show your support and dedication to quality to the Greater Susquehanna Valley?**

Advertising is available in the monthly newsletter of the ASQ Harrisburg section. **Quality Currents** is a monthly professionally printed newsletter that reaches over 700 quality professionals every month.

If you have a product or service to offer, consider advertising in Quality Currents. The rates are reasonable and are listed below.

For more information or a copy of a recent newsletter go to <http://www.asq-harrisburg.org/>.

**2015–2016 Rate and Fee Schedule for  
Quality Currents  
Monthly newsletter for Harrisburg Section ASQ  
Published September thru June**

|              |                 |       |
|--------------|-----------------|-------|
| Full page    | 7 1/2" x 10"    | \$150 |
| Half page    | 7 1/2" x 4 3/4" | \$100 |
| Quarter Page | 3 1/2" x 4 3/4" | \$60  |
| Eighth page  | 3 1/2" x 2 1/2" | \$30  |

10% Discount on 3 or more insertions, payable in advance.

Full page inserts available by quote.

Sizes other than as noted above will be considered at same rate schedule. Half page on a two column layout is the same as half price listed above. Camera ready artwork please, simple layout and scanning at additional cost. Section members may place advertisements at a reduced rate. Employment / Placement firms general advertisement at full fee. Specific openings in regional area at 1/2 the rate schedule fees.



American Society for Quality Inc.  
Harrisburg Section 503

NONPROFIT ORG  
U.S. POSTAGE  
PAID  
HARRISBURG, PA  
PERMIT NO. 418

**ENROLLMENT FORM  
ASQ HARRISBURG SECTION 0503  
GENERAL COURSE OFFERINGS  
FALL 2015 SESSION**

(Do not use this form for any session other than Fall 2015)

Complete and return no later than Sept. 19, 2015 to: ASQ Harrisburg Section  
Attn: John Sharp 30  
Maplewood Drive Etters  
PA 17319

(Circle the course and location)

|                    |            |           |      |
|--------------------|------------|-----------|------|
| QCE 100—           | HARRISBURG | LANCASTER | YORK |
| QCE 101—           | HARRISBURG | LANCASTER | YORK |
| QCE 102—           |            | LANCASTER | YORK |
| QCE 103—           | HARRISBURG |           |      |
| QCE 104—           | HARRISBURG |           |      |
| QCE 105—           | HARRISBURG |           | YORK |
| QCE 106—           | HARRISBURG |           |      |
| QCE 108—           |            | LANCASTER |      |
| QCE 109—           | HARRISBURG | LANCASTER | YORK |
| QCE 111—           | HARRISBURG |           |      |
| QCE 112—Part 1 & 2 | HARRISBURG |           |      |
| QCE 113—           | HARRISBURG |           | YORK |
| QCE 114—           | HARRISBURG |           |      |
| QCE 115—           | HARRISBURG | LANCASTER |      |
| QCE 116—           | HARRISBURG |           |      |
| QCE 117—           | HARRISBURG | LANCASTER |      |
| QCE 118—           | HARRISBURG | LANCASTER | YORK |
| QCE 119—           | HARRISBURG | LANCASTER | YORK |
| QCE 201—           | HARRISBURG | LANCASTER | YORK |
| QCE 202—           | HARRISBURG | LANCASTER | YORK |
| QCE 203—           | HARRISBURG | LANCASTER | YORK |
| QCE 301—           | HARRISBURG |           |      |

Check here if you are not a Harrisburg Section member and would like your name added to our education mailing list.

| Name:                              | Address: | Business | Home  |
|------------------------------------|----------|----------|-------|
| _____                              | _____    | _____    | _____ |
| (as desired on course certificate) |          |          |       |
|                                    |          | _____    | _____ |
|                                    |          | _____    | _____ |
|                                    | Phone    | _____    | _____ |

# ENROLLMENT FORM ASQ HARRISBURG SECTION 0503 GENERAL COURSE OFFERINGS WINTER 2016 SESSION

(Do not use this form for any session other than Winter 2016)

Complete and return no later than Jan. 31, 2016 to: ASQ Harrisburg Section  
Attn: John Sharp 30  
Maplewood Drive Etters  
PA 17319

(Circle the course and location)

|                |            |           |      |
|----------------|------------|-----------|------|
| QCE 100—       | HARRISBURG | LANCASTER | YORK |
| QCE 101—       | HARRISBURG | LANCASTER | YORK |
| QCE 102—       | HARRISBURG | LANCASTER | YORK |
| QCE 103—       | HARRISBURG | LANCASTER | YORK |
| QCE 104—       | HARRISBURG | LANCASTER | YORK |
| QCE 105—       | HARRISBURG |           | YORK |
| QCE 106—       | HARRISBURG |           |      |
| QCE 107—       |            | LANCASTER |      |
| QCE 109—       | HARRISBURG | LANCASTER | YORK |
| QCE 111—       | HARRISBURG |           |      |
| QCE 112—Part 1 | HARRISBURG |           |      |
| QCE 113—       | HARRISBURG |           | YORK |
| QCE 114—       | HARRISBURG |           |      |
| QCE 115—       | HARRISBURG | LANCASTER |      |
| QCE 116—       | HARRISBURG |           |      |
| QCE 117—       | HARRISBURG | LANCASTER |      |
| QCE 118—       | HARRISBURG | LANCASTER | YORK |
| QCE 119—       | HARRISBURG | LANCASTER | YORK |
| QCE 201—       | HARRISBURG | LANCASTER | YORK |
| QCE 202—       | HARRISBURG | LANCASTER | YORK |
| QCE 203—       | HARRISBURG | LANCASTER | YORK |
| QCE 301—       | HARRISBURG |           |      |

Check here if you are not a Harrisburg Section member and would like your name added to our education mailing list.

|             | Address:                           | Business | Home  |
|-------------|------------------------------------|----------|-------|
| Name: _____ | _____                              | _____    | _____ |
|             | (as desired on course certificate) |          |       |
|             |                                    | _____    | _____ |
|             | Phone                              | _____    | _____ |