Basic Quality Control BA-100

Instructor: Tom Davis, CQE, PE, ASQ Fellow

RU: 1.8 Prerequisite: None but familiarity with basic algebra will be helpful

Abstract:

This Basic Quality Control course is designed for new or returning quality professionals, line managers and staff employed in manufacturing or service companies. It will serve to learn about or refresh their knowledge of the "Why" the quality tools of histograms, data plotting, bell-and skewed shaped curves, when used correctly, lead to a high quality product and /or meet or even exceed a customer's expectations.

This is an adult centered course for busy professionals. The classroom techniques will include lecture, individual participation, group problem discussion, case studies, and quizzes to test understanding.

A calculator with standard statistical functions will be provided.

Course content:	
Introduction o ASQ - Aims & Concepts o History & Background of Quality Control o Philosophies & Progressive Developments o Terminology & Definitions	Acceptance Sampling o Sampling Theory o Types of Sampling Plans o O. C. Curves o Advantages of Various Plans o Construct your own Plan
Basic Statistical Concepts o Practical Probability Relations o Frequency Distributions o Measures of Central Tendency & Dispersion	Quality Systems o ISO 9000:2008 o AS9100C o QS9000
Process Control Techniques o Capability Studies o Measurement Variation Studies Tolerance Determination o Variables Control Charts o Charts for Attributes	Tools for Continuous Improvement o Personnel Requirements o Functions & Training o Responsibility & Relationships o Costs Related to Quality
Summary & Introduction to Certification	

Who should attend?

New staff to manufacturing or service positions who require a fundamental knowledge of the application of the basic statistics tools in their work with the goal of improving productivity through the use of measuring, charting, and analyzing variable (e.g., measurable) and/or attribute (e.g., yes/no, accept/reject) information.
Also, everyone who wishes to pursue a curriculum leading to certifications as a Six Sigma Green Belt, Quality Engineer, Quality Technician, and Manager of Quality & Organizational Excellence.