



Quality Quest

www.time2meet.com/asq1508/index.shtml

January 2009 Volume 50 Issue 05

ASQ Section 1508 St. Petersburg/ Tampa
DINNER MEETING Monday, January 12, 2009

Speaker: Bernie Saboe
Performance Consultant, Raytheon Professional Services

Topic: InnovationStation Experience – The “Intellectual & Emotional Thoughtspace” for Value Creation

The InnovationStation Experience provides leaders a new perspective on their business. Built on a foundation of proven methodologies and years of experience, InnovationStation brings leaders together in an “intellectual & emotional thoughtspace” so they can view their opportunities and challenges in a completely different light. This approach, which leverages not only a team’s analytical abilities, but also its creativity and imagination, can generate breakthrough innovation, bolster business’s competitiveness, and further unify the team around a common vision.

The InnovationStation Experience is designed to lead a team through three phases of creativity -

Be There - Explore how you approach the career opportunities & challenges. Through a series of exercises, examine what side of your brain is dominating your perceptions. Take an introspective journey that will heighten your creative focus.

Set the Stage - Your team collaborates to maximize diversity of thought & practice techniques that enhance creative thinking and set the stage for innovative opportunities.

Tell the Story - In a highly collaborative thoughtspace, imagine the possibilities & transform visionary & symbolic reality into innovative results to bring your ideas to life.

From this approach, you will condition yourself in the art form and science of creative thinking, unleash your imagination, trust your instincts, & collaborate, and become more innovative with your business opportunities

Bernie Saboe is a Performance Consultant for Raytheon Professional Services, LLC (RPS), a unit of Raytheon Company. RPS is an award-winning provider of integrated learning solutions that improve performance of commercial, military and government organizations worldwide. Bernie’s most recent global endeavors include business diagnostics with a wide range of international clients in the Automotive, Financial, Pharma and Utilities markets. He has contributed to the aerospace industry for over 25 years in various positions including Program Director, Six Sigma Master Black Belt, Business Area Manager, and Product Leader.

Pre-Dinner Speaker: John Pieno, Chairman, Board of the Sterling Council

John will discuss how organizations that have implemented or are beginning to implement quality improvement process such as Six Sigma, Lean Manufacturing, and ISO standards are taking advantage of the Malcolm Baldrige and Sterling Award Criteria to become more competitive and create better workplaces and communities.

Happy Holidays. See you all at the meeting.

Haroon Abbu, PMP, Master Black Belt – ASQ Section 1508 Programs Chair





Message from the Chair

Another year goes by and I am glad to be counted among such fine group of people - Professionals dedicated to Quality! I continue to be thankful for speakers, such as Mark Moyer and Ted Myers, who were able to overcome the unexpected loss of electrical power at our last meeting, with their knowledge of the subject matter and excellent communication skills. Mark, a Quality Engineer Specialist with Baxter Healthcare and current ASQ Biomedical Division's Vice Chair of Discussion Groups, spoke about the benefits of being connected with the Biomedical Division and about the planning stages for a local Discussion Group. Ted Myers, President and CEO, was our main speaker of the night. Ted spoke to us on the topic of Getting Past "Maybe" and Handling Indecision. Throughout his presentation, Ted shared valuable nuggets that helped propel his career from Design Engineer to President and CEO of Digital Lightwave.

As we enter 2009, I look forward to another year of great camaraderie and insights that will help us both in our personal and professional lives. With this, I wish you and your families a healthy and wonderful holiday season.

Merry Christmas and Happy New Year,

Victor Martins, CRE
Chair, ASQ St. Petersburg/Tampa, Section 1508





2008-2009 Excellence Award

Recruit the most members by May 30, 2009 and win the Excellence Award. It's easy to participate. Just ask your recruits to reference your name and ASQ membership number on their application, and select Section 1508 as their section. They can join online at www.asq.org.

<i>First Place:</i>	<i>\$129 check (the amount of ASQ annual membership dues) and \$100 Target Gift Card</i>
<i>Second Place:</i>	<i>Certificates for three free Section 1508 Dinner Meetings</i>
<i>Third Place:</i>	<i>Certificate for one free Section 1508 Dinner Meeting and a silver Business Card Holder</i>

Not Getting Your E-mail Notifications?

Not receiving Section updates via e-mail, such as meeting and event announcements? We may have an incorrect email address for you. You may have opted out of section update email. Please check your account information on the ASQ website.

Visit www.ASQ.org and log in to My ASQ (enter member number and password)

- Click *Manage My Account*
- Click *My Contact Information*
- Update your e-mail address

Click *E-mail Preferences* and check-mark *Section Updates*

Or, e-mail ASQ Customer Care at help@asq.org or call 800-248-1946.

Mark Your Calendars for February 9th

Please plan on attending the February 9th ASQ dinner meeting when special recognition will be given to those who passed the December 6th certification exams.



Announcing ASQ Section 1508 (St Petersburg/Tampa) Group on LinkedIn

ASQ Section 1508 (St Petersburg/Tampa) is now part of the well known professional online networking community: **LinkedIn**. With 17 million plus members and growing every day, it has become the best place to establish new contacts, stay connected with business partners & co-workers, and reconnect with old colleagues. Now you can expand your professional network by joining the ASQ St Petersburg/Tampa LinkedIn Group.

LinkedIn Group is a simple way for you to identify yourself as a member of a specific organization on LinkedIn so that other members within your organization can easily find and connect with you via your LinkedIn account. Once you become a member of a particular LinkedIn group, you will have access to identifying other LinkedIn members who are also members of the group to make a new connection.

LinkedIn has a very strict privacy policy, which you can read for yourself using this link http://www.linkedin.com/static?key=privacy_policy&trk=hb_ft_priv. You can join LinkedIn for free by using the link <http://www.linkedin.com/home>

Also, once you become a member of LinkedIn or already a member, you must request to be added to the ASQ St Petersburg/Tampa LinkedIn Group. Only current members of the section will be allowed to join this group. Here is the link to join ASQ St Petersburg/Tampa group on LinkedIn <http://www.linkedin.com/groups?gid=816317>

As with any third party tool, use of LinkedIn is not an endorsement. If you have more questions, please visit the FAQ section on the LinkedIn Groups page. We hope this will enhance your professional networking and career opportunities. For more information, contact Haroon Abbu, Programs Chair, ASQ Section 1508

Looking For Presentation Files??

Electronic copies/slideshows of past presentations are now available online at:
<http://www.slideshare.net/ASQ1508/slideshows>

The screenshot shows the Slideshare website interface. The address bar displays <http://www.slideshare.net/ASQ1508/slideshows>. The navigation menu includes Home, Browse, My Slidespace, Upload, Community, and Widgets. A search bar is visible with the text "Search". Below the navigation, there are several presentation thumbnails with titles and metadata:

- PowerPoint to video**: Make dynamic video from PowerPoint. Fast and accurate, free to try! www.ppt-to-video.com/
- PowerPoint Templates**: 500,000 PowerPoint Templates. Animations and backgrounds. www.AnimationFactory.com
- PowerPoint to Video**: Convert PowerPoint to DVD Quality Video in AVI, MP4 or WMV format. www.presentersoft.com

The "My Slideshows" section displays a grid of presentations:

- Connecting Culture To Quality Improvement Oct08 2**: from ASQ1508 38 seconds ago, 0 views, 0 comments, Edit Delete
- ASQ Biomedical**: from ASQ1508 11 hours ago, 2 views, 0 comments, Edit Delete
- Getting Past "Maybe" Management Indecision**: from ASQ1508 11 hours ago, 4 views, 0 comments, Edit Delete
- Improving your Communications Skills to Achieve Quality Objectives**: from ASQ1508 2 weeks ago, 70 views, 0 comments, Edit Delete
- Quality and Project Management, A Time Solution**: from ASQ1508 11 hours ago, 4 views, 0 comments, Edit Delete

NOTICE TO ALL MEMBERS PLANNING TO TAKE CERTIFICATION EXAMS

Due to the increased number of members taking exams, the location of the Section 1508 exams will be moved, starting with the December 6, 2008 exams. The location will be moved to:

Jabil, Inc.
10800 Roosevelt Boulevard
St. Petersburg, FL 33716



The Board of Section 1508 gratefully acknowledges the generosity of Sue Dauterman, coordinating the past exam logistics for Conmed Linvatec, as well as Allan Banko, offering the Jabil facilities for future exams.

**"ADVANCED STATISTICAL PROCESS CONTROL (SPC) & PROCESS CAPABILITY WITH MINITAB:
USING SPC TO IMPROVE BUSINESS PROCESS PERFORMANCE"**

(1 day / 7 hours / 0.7 RU's)

This program begins with a review of the proper use of the most common Variables Charts (x-bar & R charts, Individual & Moving Range Charts), and Attributes Charts (p, np, c, u). Emphasized in this review are data collection techniques that ensure useful chart data, methods for determining rational subgroups, sampling frequency and sample sizes, recommended techniques for implementing SPC successfully throughout the organization and the effective use of any control chart software for chart creation. Control charts for non-standard applications are then discussed, such as using I-MR charts for Attributes data and Short run control charts. The emphasis of the course then moves to detailed techniques for accurately evaluating process performance and process capability as well as interpreting unstable control chart patterns in order to effectively trouble-shooting process problems and obtain root-cause corrective action.

Throughout this course, Minitab software will be used to demonstrate the principles taught. Participants with Minitab are encouraged to bring a laptop with Minitab Release 15 loaded on it if they want to learn how to use Minitab for the analyses shown. However, *it is not necessary to bring a laptop or work with Minitab in order to benefit from this course.* (If you are planning to work with Minitab during the course, you will need to load data files ahead of time. These files will be e-mailed to you prior to the course.)

COURSE PRE-REQUISITES: This course assumes that participants have been trained in the basic mechanics of Statistical Process Control. No control charts will be created, and minimal calculations will be performed during this course. The emphasis of this course is on effective control chart implementation and interpretation for process improvement so that the benefits obtained from SPC will justify the time and expense of data collection.

A. REVIEW OF BASIC STATISTICAL PROCESS CONTROL (~ 1 hour)

1. Understanding Variation & the Role of Control Charts
2. "Product (Result)" vs. "Process" Control
3. The Role of SPC in Business Management - Monitoring, Controlling, Improving, & Maintaining Processes and their Results
4. Techniques for Effective Data Collection (Who, What, Where, When, Why, How Much, and How Often)
5. Ensuring Data Accuracy and Validity (Measurement System Analysis and the Importance of Clear Operational Definitions)
6. Review of Basic Variables and Attributes Control Charts - Applications, Sample Sizes, Chart Construction, etc. ("x-bar and Range" Charts, "Individual and Moving Range" Charts, "p" and "np" Charts for "Defectives", "c" and "u" Charts for "Defects")

B. "OTHER" CONTROL CHARTS (~ 2.0 hours): Using I - MR Charts for Attributes Data, x-bar – Sigma Charts, Short-Run SPC

C. CONTROL CHART INTERPRETATION FOR CORRECTIVE ACTION AND PROCESS IMPROVEMENT (~ 2.0 hours)

1. Review of Shewhart's Tests for Natural Patterns, Stratification, Outliers, Trends, Runs, Cycles, and Mixtures
2. The Role of Control Charts in Process Improvement Efforts
3. Trouble-Shooting Techniques for Effective Root-Cause Corrective Action
4. Recommended Action Plans for "out-of-control" Processes

D. EFFECTIVE USE OF CONTROL CHARTS (~ 1 hour): The Effective Use of SPC Computer Packages, Efficient Implementation and Use of Control Charts in Business Applications

E. PROCESS CAPABILITY AND PROCESS PERFORMANCE ANALYSIS (~ 1.0 hour): Analysis Requirements, Cp/Cpk/Cr vs. Pp/Ppk, Calculating and Interpreting "Sigma" levels, PPM, Percent Defective, etc.

DATES: **Saturday, January 17th, 2009 (NOTE THE NEW DATE!!)**

TIMES: 8:00 – 4:30 PM

LOCATION: Young - Rainey STAR Center, 7887 Bryan Dairy Road, Suite 120, Largo, Florida 33777, (727) 541-8942

ROOM: The Planning Center (1st Floor)

INSTRUCTOR: Dr. Lois A. Jordan, Transformation Technologies™, Inc.

COST: \$150.00 for Members (your ASQ member number must be provided when registering); \$165.00 for Non-Members

DEADLINE FOR REGISTRATION: Friday, January 2, 2009

DEADLINE TO RECEIVE PAYMENT: Saturday, January 17, 2009 (at the seminar)

MAKE CHECKS PAYABLE TO: **ASQ SECTION 1508**

An invoice will be e-mailed to you with payment details once the course is confirmed. Please note that payment must be made prior to the start of the seminar either by cash, check, approved corporate Purchase Order or credit card. (Credit card payments can only be made through PayPal.) Cancellations made after Friday, January 2nd, will require payment of \$75 for late cancellation. You may make substitutions at any time with no penalty.

Payment should be made to: "ASQ Section 1508". It can be brought to the seminar or mailed to: 9212 Rustic Pines Blvd. West, Seminole, FL 33776. Attention: Glen Cavanaugh, Treasurer (glen@tampabay.rr.com). Please do NOT send payments to ASQ National in Milwaukee!

For more information or to register for this program, please contact Lois Jordan at: loisjordan@transformationtech.com • (813) 835-5529



“CERTIFIED QUALITY ENGINEER (CQE) & CERTIFIED SIX SIGMA BLACK BELT (CSSBB) EXAM PREP”

(5 days / 35 hours / 3.5 RU's)

This 35-hour seminar provides a thorough overview of the quantitative method / statistics topics covered in the Bodies of Knowledge (BOK) for both the CQE and CSSBB exams. A complete listing of the topics covered vs. the exam Body of Knowledge paragraphs for each topic is shown on the following page.

Each topic is presented in a practical, easy-to-follow manner that emphasizes the correct application of the tools covered. Participants will be given the opportunity to practice all of the tools during class as well as with optional homework exercises. This program focuses on the quantitative topics since they are the topics most commonly failed by people taking both of these exams. It has been so successful that the pass rate for people taking this course (through 2008) is over 80%, which is double the international pass rate (typically in the low 40% range).

Participants will receive an extensive reference manual (over 900 pages) with all the statistical tables required for the exam (that can be used during the exam), a TI-30XA Scientific calculator that participants will be taught to use during class, and a set of over 500 sample exam questions with an answer key. There are no pre-requisites for the course, but basic high school level algebra is very helpful.

For more details on either certification, including the detailed Body of Knowledge list, or to register to take an ASQ certification exam, please visit www.asq.org and go to the section on “Training & Certification”.

DATES: Wednesday & Thursday, March 4 & 5; Saturday & Monday, April 4 & 6; and Thursday, May 14, 2009

TIMES: 8:30 AM – 4:30 PM

LOCATION: Young - Rainey STAR Center, 7887 Bryan Dairy Road, Largo, Florida (727) 541-8942

ROOM: The Planning Center (1st Floor)

INSTRUCTOR: Dr. Lois A. Jordan, Transformation Technologies, Inc.

COST: \$550.00 for members / \$600 for non-members

NOTE: This is the same course offered by ASQ National (through Dr. Lois Jordan) for \$1420 (plus travel) for ASQ members. It is being provided at this significantly discounted rate exclusively to Florida section members and their colleagues.

DEADLINE FOR REGISTRATION: Friday, February 6, 2009

DEADLINE TO RECEIVE PAYMENT: Wednesday, March 4, 2009 (at the seminar)

An invoice will be e-mailed to you with payment details once the course is confirmed. Please note that payment must be made prior to the start of the seminar either by cash, check, approved corporate Purchase Order or credit card. (Credit card payments can only be made through PayPal.) Cancellations made after Friday, February 6th will require payment of \$150 for late cancellation. You may make substitutions at any time with no penalty.

Payment should be made to: “ASQ Section 1508”. It can be brought to the seminar or mailed to: 9212 Rustic Pines Blvd. West, Seminole, FL 33776. Attention: Glen Cavanaugh, Treasurer (glenc@tampabay.rr.com). Please do NOT send payments to ASQ National in Milwaukee!

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Exam Body-Of-Knowledge (BOK) Topics Covered (by paragraph number)

TOPIC	CQE EXAM BOK ITEM	CSSBB EXAM BOK ITEM
Collecting & Summarizing Data: Types of Data Measurement Scales Data Collection Methods	VI.A: VI.A.1 VI.A.2 VI.A.3	V.C: V.C.1 V.C.2 V.C.3, V.C.4
Graphical Methods for Depicting Relationships	VI.A.6	V.C.6
Quality Control Tools: Pareto charts, check sheets, scatter diagrams, histograms NOTE: Control Charts covered in Module 5	V.A.1	V.C.6
Measurement System Analysis	IV.F	V.E.2
Quantitative Terms & Concepts: Terminology Probability Terms & Concepts	VI.B: VI.B.1 VI.B.3	V.B: V.B.1 V.B.3
Descriptive Statistics	VI.A.5	V.C.5
Reliability & Maintainability Reliability & Maintainability Indices Bathtub Curve	III.E: III.E.2 III.E.3	N/A
Probability Distributions: Continuous Distributions Discrete Distributions Other Distributions	VI.C: VI.C.1 VI.C.2 VI.C.1	V.D.1 V.D.1 V.D.1 V.D.2
Acceptance Sampling: Sampling Concepts Sampling Standards & Plans	IV.C: IV.C.1 IV.C.2	N/A
Graphical Methods for Depicting Distributions: Normal Probability Plots	VI.A.7	V.C.6
Non-Normal Data Transformation	N/A	V.F.6
Statistical Decision-Making: Point Estimates & Confidence Intervals Hypothesis Testing	VI.D: VI.D.1 VI.D.2	VI.B: V.B.2, VI.B.2 VI.B.1, VI.B.3
Statistical Decision-Making: Paired-Comparison Tests Goodness-of-Fit Tests Contingency Tables	VI.D: VI.D.3 VI.D.4 VI.D.6	VI.B: VI.B.4 VI.B.5 VI.B.7
Relationships Between Variables: Linear Regression Simple Linear Correlation Time-Series Analysis	VI.E: VI.E.1 VI.E.2 VI.E.3	VI.A: VI.A.2.a VI.A.2.b
Design & Analysis of Experiments (DOE) Terminology Planning & Organizing Experiments Design Principles One-Factor Experiments Full-Factorial Experiments Two-Level Fractional Factorial Experiments	VI.H: VI.H.1 VI.H.2 VI.H.3 VI.H.4 VI.H.5 VI.H.6	VII.A: VII.A.1 VII.A.2 VII.A.3 VII.A.4 VII.A.5 VII.A.6
Analysis of Variance (ANOVA)	VI.D.5	VI.B.6
Statistical Process Control (SPC): Objectives & Benefits Common & Special Causes Selection of Variables Rational Sub-grouping Control Charts: Attributes & Variables Data Control Chart Analysis Pre-Control Charts Short-Run SPC	VI.F: VI.F.1 VI.F.2 VI.F.3 VI.F.4 VI.F.5 VI.F.6 VI.F.7 VI.F.8	VIII.A: VIII.A.1 VIII.A.1 VIII.A.2 VIII.A.3 VIII.A.4 VIII.A.5 VIII.A.6 VIII.B
Process & Performance Capability: Process Capability Studies Process Performance vs. Specifications Process Capability Indices: Cp, Cpk, Cpm, Cr Process Performance Indices: Pp, Ppk	VI.G: VI.G.1 VI.G.2 VI.G.3 VI.G.4	V.F: V.F.1 V.F.2 V.F.3, V.F.7 V.F.4, V.F.5

"INTRODUCTION TO RELIABILITY ENGINEERING"
(3 Days / 21 hours/ 2.1 RU's)

The purpose of this program is to provide a basic introduction to the broad field of reliability engineering. As global competition increases, so does the need for further reliability improvement in both products and services. During the course of three days we will address the following key issues:

- The management structure necessary to promote reliability engineering objectives.
- The basic tasks of reliability engineering.
- The role of reliability information systems (warranty, failure analysis, testing, etc.).
- The most common statistical models used for reliability modeling and analysis.
- The role of reliability engineering in the overall risk management process.
- Managing reliability improvement projects.

The goal is for a student to come away from this short-course with a clear understanding of the tools and tasks (quantitative and qualitative) necessary for modern reliability engineering.

Throughout this course, Minitab software will be used to demonstrate the principles taught. Participants with Minitab are encouraged to bring a laptop with Minitab loaded on it if they want to follow along. However, it is not necessary to bring a laptop or work with Minitab in order to benefit from this course.

COURSE PRE-REQUISITES: This course assumes that participants have the ability to perform basic algebraic calculations. A brief review of statistical methods is included and it is not necessary for the student be proficient with statistics. It is necessary that you have a basic calculator with statistical functions (for example, the TI 30 or equivalent).

DAY 1	Introduction and Overview of Reliability Engineering <ul style="list-style-type: none">• What is Reliability Engineering?• Repairable versus Non-Repairable items• Reliability Management Basic Statistical Methods used in Reliability <ul style="list-style-type: none">• Review of basic statistical methods• Using statistics to model time-to-failure: the Normal model• Probability plotting time-to-failure: the Normal Model	2 hours 5 hours
DAY 2	Basic Statistical Methods used in Reliability (continued) <ul style="list-style-type: none">• Probability plotting time-to-failure: the Exponential Model• Probability plotting time-to-failure: the Weibull Model• Using probability models to establish reliability goals Reliability in the Design Process <ul style="list-style-type: none">• The Design Review• Failure Mode and Effects Analysis (FMEA)• Reliability Allocation Using Designed Experiments to Improve Reliability	3 hours 2 hours 2 hours
DAY 3	Modeling Reliability Growth <ul style="list-style-type: none">• The Duane Model• Predicting reliability using the Kaplan-Meier Model Establishing a Reliability Management Process	4 hours 3 hours

DATES: Thursday, Friday and Saturday, February 5 - 7, 2009
TIMES: 8:00 – 4:30 PM
LOCATION: Young - Rainey STAR Center, 7887 Bryan Dairy Road, Suite 120, Largo, Florida 33777, (727) 541-8942
ROOM: The Planning Center (1st Floor)
INSTRUCTOR: Dr. Mark McComb, Associate Professor, Mississippi College; Top-Ranked ASQ National Instructor in DOE, Reliability and Statistics
COST: \$350.00 for Members; \$385.00 for Non-Members

DEADLINE FOR REGISTRATION: Friday, January 16, 2009
DEADLINE TO RECEIVE PAYMENT: Thursday, February 5, 2009 (at the seminar)

An invoice will be e-mailed to you with payment details once the course is confirmed. Please note that payment must be made prior to the start of the seminar either by cash, check, approved corporate Purchase Order or credit card. (Credit card payments can only be made through PayPal.) Cancellations made after Friday, January 16th will require payment of \$75 for late cancellation. You may make substitutions at any time with no penalty.

Payment should be made to: "ASQ Section 1508". It can be brought to the seminar or mailed to: 9212 Rustic Pines Blvd. West, Seminole, FL 33776. Attention: Glen Cavanaugh, Treasurer (glenc@tampabay.rr.com). Please do NOT send payments to ASQ National in Milwaukee!

For more information or to register for this program, please contact Lois Jordan at: loisjordan@transformationtech.com • (813) 835-5529



"USING MINITAB FOR BASIC STATISTICS AND DESIGNED EXPERIMENTS"

(1 day / 7 hours / 0.7 RU's)

The purpose of this course is to teach participants how to properly use Minitab (Release 15) software to perform basic graphical and numerical Statistical analyses and to design and analyze Designed Experiments. This course assumes that participants have been well trained in basic Statistics and Designed Experiments. No calculations will be performed during this course and only a brief review of Statistical concepts will be provided with each topic covered. No prior knowledge of Minitab is required however.

NOTE: Participants are required to bring a laptop with Minitab Release 15 loaded on it. They will also need to load data files onto their laptops ahead of time for use during class. These files will be e-mailed to you prior to the course.

- A. Understanding the Minitab File Structure
 - 1. Worksheet Structure and Notation
 - 2. Entering Data into Minitab (New data, Files transferred in from Excel)
 - 3. Formatting Data (Sorting, Changing Data Type, Making Patterned Data)
 - 4. Minitab Projects vs. Worksheets
 - 5. Worksheets, Graphs, Session Windows, Project Manager
- B. Basic Descriptive Statistics Calculations (Equation Editor, Row and Column Calculations, Displaying Descriptive Statistics)
- C. Creating Graphs (Bar Charts, Pie Charts, Run / Line Charts, Pareto Charts, Histograms, Scatter Plots, Stem and Leaf Plots, Box Plots, Cause-and-Effect Charts)
- D. Probability Distributions (Creating Random Data Sets, Working with Existing Data)
- E. Basic Inferential Statistical Analyses
 - 1. Confidence Intervals and Hypothesis Tests for: 1 sample z, t, Proportion, Poisson Rates, Variance
 - 2. Confidence Intervals and Hypothesis Tests for: 2 sample t, Proportion, Poisson Rate, Variance
 - 3. Paired t Tests
 - 4. Correlation Analysis
 - 5. Tests for Normality
 - 6. Chi-Square Goodness of Fit Tests
 - 7. Contingency Tables
- F. Estimating Power and Sample Size (1 sample z, t, and Proportion; 2 sample t and Proportion)
- G. Designed Experiments
 - 1. Designed Full and Fractional Factorial Experiments
 - 2. Analysis of Variance
 - 3. Main Effects, Interaction and Cube Plots
- H. Working with the Minitab Statguide

DATES: **Friday, January 16th, 2009 (NOTE THE NEW DATE!!!)**

TIMES: 8:00 – 4:30 PM

LOCATION: Young - Rainey STAR Center, 7887 Bryan Dairy Road, Suite 120, Largo, Florida 33777, (727) 541-8942

ROOM: The Planning Center (1st Floor)

INSTRUCTOR: Dr. Lois A. Jordan, Transformation Technologies™, Inc.

COST: \$150.00 for Members (your ASQ member number must be provided when registering); \$165.00 for Non-Members

DEADLINE FOR REGISTRATION: Friday, January 2, 2009


DEADLINE TO RECEIVE PAYMENT: Friday, January 16, 2009 (at the seminar)

MAKE CHECKS PAYABLE TO: **ASQ SECTION 1508**

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For more information or to register for this program, please contact Lois Jordan at: loisjordan@transformationtech.com • (813) 835-5529



ASQ Section 1508 St. Petersburg/ Tampa
DINNER MEETING

Hilton Tampa Airport Westshore
2225 North Lois Ave
Tampa, FL.

Due to the board meeting running from 4:30-5:30, Registration for the meeting will not start until 5:30.

5:30pm-6:00 Registration

5:30-6:00pm Appetizers/Networking **

** Appetizers are provided at no cost to members by the section. **

6:00- 6:30 Pre-Dinner Topic

6:30pm -7:15 Dinner

House Salad with Pecans, Cucumber, Tomatoes with Balsamic Vinaigrette

Entrée: Hearts of Sirloin topped with Boursin cheese

Served with Fingerling Potatoes with Green Bean Medley

Desert: Chocolate Cake

Directions :

From St. Petersburg: Take I-275/ Howard Franklin Bridge and exit at Lois Ave (before Dale Mabry). Take left onto Lois Ave (north); Hilton is 3/4 mile on right.

From Clearwater: Take SR60 Courtney-Campbell Pkwy towards Tampa Airport. Turn south on Memorial Highway, then exit right onto Spruce Street exit. Follow Spruce St. 1 mile to N. Lois. Take a right on N. Lois. Hotel is 0.2 miles on left.

From Tampa: Take I-275 westbound past Dale Mabry and exit at Lois Ave. Take right onto Lois Ave (north); Hilton is 3/4 mile on right.

On-line Reservations: www.time2meet.com/asq1508/index.shtml

Reservations should be made by 4:00PM, Thursday, January 08, 2009

If you experience a problems using the website for making a reservation, send an e-mail with your phone number, company name and address to Heike.

ASQ1508@tampabay.rr.com

Cancellations should be made by noon on the Friday before the meeting but every effort will be made to accommodate late cancellations. If you have a special dietary request - vegetarian or low fat. - please indicate this at the time you make your reservation. **\$25.00** per member with a reservation or **\$30.00** at the door for guests and members without a reservation. **Only cash or check accepted at the door.**

If you make a reservation and do not attend, the section must still pay for your meal.

In this event you should reimburse the section by sending a **check**, payable to ASQ, for **\$25.00** to our treasurer, **Glen Cavanaugh, 9212 Rustic Pines Blvd. W, Seminole, FL. 33776**



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Milwaukee, WI. 53201-3005

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Quality Quest is published monthly by the Tampa/St. Petersburg Section of the American Society for Quality.

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Education Chair

Dr. Lois A. Jordan

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Education Co-Chair

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Internet Liaison Chair

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Membership Statistics (as of November 2008)

Regular	297
Fellow	3
Senior	228
Associate	7
Student	21
Sustaining	5
Forum	3
Org Member	2
	=====
Total	566