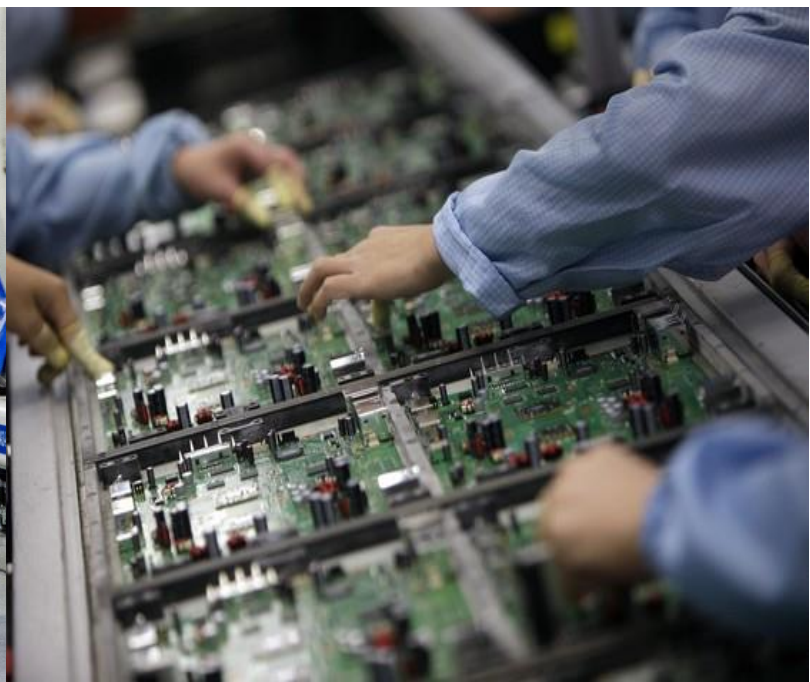


Managing Process Quality to drive World Class Customer Performance

26th – 27th October 2017 – Shenzhen China

Modernizing your approach for today's critical customers

Reliability Solutions calculation models
Tools to that can be instantly applied in your own environments



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In collaboration:



HRDF
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Program Overview

In today's complex product manufacturing, the old approach to QC controls simply no longer apply. Using the traditional standards for QC batch controls, etc to AQL target levels simply DO NOT guarantee steady Quality levels.

Processes are so much more complex now that a very detailed continuous measurement approach is required to monitor at component failure level up to full product level. This requires very detailed process mapping and appropriate use of data to drive continual improvement and utilize for predicting expected improvement in customer Early Life failure levels.

Course attendees will learn from a range of case studies used in training material how to set up most efficient forms of process measurement and effective management.

Attendees will be given the Reliability Solutions calculation models used in the training to use in their own laptops during the education and in the group assignments

The course provides a very structured and modern-day approach to process quality optimization and how to use data to predict customer escape levels. This course will allow some excellent benchmarking with other top company approaches and teaches how to implement from bottom up.

Participants will walk away with the ability to:

- Determine how to set up your process control measurements and used of data
- Applying the most effective 6 sigma tools.
- Using Target setting to drive continual improvement
- Using in process measurements to manage suppliers and remove need for incoming inspection
- Understanding how to use process data for predicting factory escape rates to customer
- Apply DOE to optimize complex parts of the process
- Making OQA less critical and minimizing dependence on Quality 'catching' all the defects
- Controlling New Product Introduction
- Driving COST REDUCTION through savings
- Reliability Solutions calculation models that can be instantly applied in your own environments

Attend this course to Master:

- Determining the Importance of Process Mapping to control Process Quality
- Understanding why detailed process measurement is so important
- Using PFMEA to plan the best process
- Applying the appropriate 6 Sigma tools to improve process quality
- Using Process Yield data to predict escape levels to the field and Early Life Reliability
- Making sure you set up the correct and effective Management Reporting
- Identifying why Process Quality controls Early Life Warranty failure levels
- Using Design of Experiments (DOE) to optimize process quality
- Measuring New Product Introduction and ensuring maximum process quality

Why should you attend?

If you are truly interested in optimizing Process Quality in a manner that drives results quickly, then you should attend this seminar. The seminar is packed with real life case studies across a range of clients the trainer has worked with in last 20 years as consultant, working mainly in Asia region.

This seminar is NOT simply using theory from standard Quality references and literature like most Quality Improvement seminars, it shows how to use the fundamental steps mixed with quite unique measurement and reporting approaches which enable engineers and management to see clearly where they should be making change for improvement. The seminar also provides proven methodology to predict escape rates from process to customer and how these can be minimized towards Zero defects.

Finally, the attendees will get an insight into process reliability testing and how to set up within a process environment to provide further control of Early Life failures within the customer environment, making the Quality role more fulfilling and meaningful.

As Deming famously quoted;

"It is not enough to do your best; you must know what to do, and then do your best."

This program is intended

This course is designed for process engineers and managers who will have some responsibility for setting up process quality control methods, supplier quality management, quality assurance, customer quality management.

- Product Quality managers, engineers
- Product Quality managers, engineers
- Customer Quality engineers
- Supplier Quality Engineers
- Product Engineers
- Professionals who are involved in managing the process quality.

DAY 1

Session 1: Introduction to Process Mapping and Setting Up Process Measurement

- Making sure measurements are installed in process and How to use the measurement data
- Driving process problems back to earliest point in the process
- Setting up effective process reporting for easy management understanding
- **Real Life Case Study of High Volume PCBA manufacture, World Class Consumer Product manufacturer**

Session 2: Scoring the Process to Rate Level of Quality Control, Effective Case Studies

- Using an organized rating score approach to review process capability
- Benchmarking processes with the scoring approach
- **Real Life Case Study of SMART Meter Manufacturer**

Session 3: Understanding the Use of the Appropriate 6 Sigma Tools to Drive Process Improvement

- Applying the 'best' and effective 6 sigma tools and selecting those which will make the difference to your organisation

Session 4: How to Set Up a Continual Improvement Program

- Target Setting and how to use for continual improvement, Ensuring problem management is effective
- **Real Life Case Study of Consumer Electronics maker and application to drive improved Supply Chain Quality**

Session 5: Applying PFMEA Prior to Start of Mass Production

- Why PFMEA is important, How to use a simplified and effective approach
- **Real Life Case Study of Electro Mechanical product**

Day 2

Session 6: Managing suppliers within process measurements

- Setting up supplier management in an effective manner
- Using Supplier Measurement scoring to manage supply chain with effective audit methods
- How to effectively rate good suppliers and NOT rely on old style supplier audits that have minimal effect

Session 8: Applying DOE with Fractional Factorial Design to optimize processes

- Simplifying Design of Experiment approach to define key process parameters that drive process Quality
- **Real Life Case Study of Solder Process optimization**

Session 9: Understanding the best techniques to apply for effective Problem Solving

- Selecting the right company approach to streamline Problem Solving
- Measuring and Monitoring the problem solving efficiency within management reporting

Session 10: Controlling New Product Introduction (NPI) and using a unique scoring matrix to assess readiness for Mass Production

- Understanding how to score a new product readiness for manufacturing
- Ensuring maximum quality from effective NPI
- **Real Life Case studies from SMART Meter manufacturer and High End Power Supply maker**

Session 11: Workshop with attendees who will be given a task of deciding how to set up a new manufacturing process control approach

- Groups of attendees will be given examples and given two hours to develop their plan
- Ability to understand how they look at the 'total picture' and NOT simply apply standard SPC with end of line testing to attempt to 'catch' the escapes!!
- Discuss their output openly with other groups in the class to ensure knowledge transfer of good ideas / strategies

Workshop / General Q&A

Managing Process Quality to drive world class customer performance (2 Days)

Programme Facilitator – Martin Shaw (Bsc Hons)



Martin Shaw (BSc Hons), MD Reliability Solutions

- Over 34 years of experiences in reliability and process quality improvement.
- Expert in reducing product failure levels at the most expensive end of the Product Cycle.
- Extensive consultation and work assignments around USA, Europe, and Asia regions.
- Partial list of clients: Astec Power, Philips, Vestel, Acer, LG, Atmel Semiconductors, GE, Hua Wei, Emerson Power, Wolfson Microelectronics, SMART Technology, Etc

Martin successful results achieved by current and past clients:

- TPV China (World No. 1 LCD Monitor / TV maker) – 100% improvement in Warranty Fail levels, 2008-2009
- Vestel Electronics Turkey – 300% improvement in Warranty fail levels, 2008 – 2012
- SMART Technology Canada – 70% Supplier Process Quality Improvement, 2015 to 2016

Awards

- Gold Award for Best Paper at Reliasoft Applied Reliability Symposium in Berlin, March 2010 (Achieving World Class Reliability)
- Gold Award for Best Paper at Reliasoft Applied Reliability Symposium in Singapore, Oct 2010 (Achieving World Class Reliability)
- Gold Award for Best Paper at Reliasoft Applied Reliability Symposium, Warsaw, March 2012 (Predicting Warranty FRR using Process Yield Data).

Reliability Solutions

Reliability Solutions was formed in 1997 by Martin Shaw, previously of IBM as Quality and Reliability Specialist within PC business unit. Martin Shaw worked as specialist in Product and Commodity Quality / Reliability optimization for the Electronic Product Suppliers to IBM between the years of 1982-1997. During this time, he worked extensively throughout Asia, USA and Europe with wide range of suppliers. Since 1997 he has worked with a wide range of companies Worldwide and provided solutions to ensure RAPID improvement in a dynamic environment. These companies include many Blue-Chip companies: Daewoo Electronics, LiteOn, Astec Power, Philips, TPV, Vestel, Acer, LiteOn Power, LG, Amtran, Fairchild Semiconductors, Atmel Semiconductors, Wolfson Microelectronics, Analog Devices, GE, ULTRA Electronics, Melexis, IDEAL Heating, SKY TV, Hua Wei, Emerson Power, EE Phones, TCL, SMART Technology, Singapore Technology Kinetics, Etc.

Publications

- CRT Bleed Resistor Reliability (Quality and Reliability Eng International, Apr 86')
- Recognizing the optimum Burn-In period (Quality and Reliability Eng International, May 87')
- Weibull Analysis of Component Failure Data from Accelerated Testing (Reliability Engineering, Sept 89')
- Use of Bayes Theorem and Beta Distribution for Reliability Estimation (Reliability Engineering, Nov 89')

Conference Presentations

- IEEE Conference Paper presentation, San Diego October 2013
- Gold Award for Best Paper at Reliasoft Applied Reliability Symposium, Warsaw, March 2012 (Predicting Warranty FRR using Process Yield Data)
- Gold Award for Best Paper at Reliasoft Applied Reliability Symposium in Singapore, Oct 2010 (Achieving World Class Reliability with LCD TV)
- Gold Award for Best Paper at Reliasoft Applied Reliability Symposium in Berlin, March 2010 (Achieving World Class Reliability with LCD TV)
- Power Supply process optimization using Random Vibration (Submitted to European Symposium of Reliability 1997)
- Planning Early Life Reliability Testing using the 'Hughes' model (European Symposium of Reliability, Nov 94')
- IBM Interplant Technical Liaison presentations (Austin Texas 1988, Fishkill New York 1992, Raleigh N.C 1993)

Martin's Blue Chips Clients:

Daewoo Electronics, LiteOn, Astec Power, GE, Bosch Automotive products, Philips, TPV, Vestel, Acer, LiteOn Power, LG, Amtran, Fairchild Semiconductors, Atmel Semiconductors, Wolfson Microelectronics, ULTRA Electronics, Melexis Germany, IDEAL Heating, SKY TV, Hua Wei Telecommunication, Emerson Power, EE Phones, TCL, SMART Technology, Singapore Technology Kinetics, Artesyn Power, Acbel Power, Range of semiconductor manufacturers including Renesas, Toyota, Hyundai Electronics, Fairchild, Atmel, etc) and etc.



Energy1 is a sub-division of PETRO1 focus on provide trainings & technical Consultancy services ranging from Revenue losses reduction, Maintenance & reliability, spares parts optimization, electrical & electronics and business related activities in the Energy & Utilities industry. We had successfully made impact to energy & utilities professional mainly the top players in the South East Asia Region.

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|---|---------------------------------------|------------------------------|
| ▪ Metropolitan Waterworks Authority Thailand. | ▪ Star Energy Geothermal | • Sandisk Storage |
| ▪ Tenaga Nasional berhad. | ▪ Perbadanan bekalan air pulau pinang | • Muehlbauer |
| ▪ San Fernando Electric Light & Power co, Inc | ▪ Aliran ihsan resources berhad | • Dominant OPTO Technologies |
| ▪ Sarawak Energy | ▪ Visayan Electrical company | • Finisar Malaysia |
| ▪ SP Powergrid ltd. | ▪ Glow Company | • Sanmina System |
| ▪ Power Seraya | ▪ Suruhanjaya Tenaga | • Bose System |
| ▪ SMT Technologies | ▪ Indah Water Konsortium | • Amkor Technology |
| ▪ SONY | ▪ Jimah O&M | • EDMI Electronics |
| ▪ ST Microelectronics | ▪ Renesas Semiconductor | • AUO SUNPOWER |
| ▪ Celestica | ▪ Apple | • Tridonic |
| | ▪ Osram | • Mattel |
| | ▪ Hayco | |

ENERGY1 ELECTRONICS RELIABILITY COURSE IN ASIA PACIFIC MALAYSIA & CHINA



Comments from past participants:

"The course really applicable to most company. Not only necessarily for, reliability guy only. Designer should know also."
Plexus Manufacturing

"Martin is surely an expert in this field. I would recommend it to others who would need this training."
NI Malaysia

"Instructor credentials and evident in training"
Infineon Technologies

"Good presentation skills and have a lots of experience in this course."
Premium Sound

"Learn a lot of new knowledge "
Clarion

"Im specialist of statistical analysis, I know theory background. However martin can share some points in practical that make me more understand and, find out the way to apply in future"
Sanmina (Thailand)

"Fantastic. Gain a lot of knowledge from the course."
Finisar

"Very good! Definitely learn new things"
Bose System

"Martin is a serious guy and in reliability testing and with his last experience able give better insight and approach for NPD/NPI reliability testing."
Dyson Manufacturing

"Course was informative, new technique and modeling Instructor is very affective"
Sandisk Storage

"Well-versed with the training course and able to learn from its experience"
QAV Technologies

"The instructor have in depth knowledge in Reliability and Management"
Sandisk Technologies

"Very Knowledgeable on the topic and have increased my overall understanding of importance of reliability "
Dominant OPTO Technologies

"Actual cases sharing good for audience. Trainer very knowledgeable in the topic that being addresses "
Amkor Technology

"Good Knowledge on the industry and the needs to improve design for cost effectiveness"
Muehlbauer Technologies

"Simplify complicated reliability subject into practical model for electronics industry"
EDMI Meters

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Managing Process Quality to drive world class customer performance (2 Days) Registration Form

Managing Process quality to drive world class customer Performance	2 or more person Full 2 Days	1 person Full 2 Days	PROGRAM DETAILS Venue: Shenzhen, China Date: 26 th – 27 th October 2017 REGISTER NOW CONTACT: kelvin MAIN: +603 7727 3952 FAX: +603 7727 5278 Email: registration@petro1.com.my
Per Delegate	USD 1199 ()	USD 1599 ()	
REGISTER 3 AND SENT THE 4th FREE • Please note that all registrations must be made at the same time to qualify.			
() I would like to organize this training on-site and save at least 40% on the total course Fees!			

Invoice Details

1. Name: _____ Mr Mrs Ms Dr

Job Title: _____

Email : _____

Contact No: _____

Department: _____

2. Name: _____ Mr Mrs Ms Dr

Job Title: _____

Email : _____

Contact No: _____

Department: _____

3. Name: _____ Mr Mrs Ms Dr

Job Title: _____

Email : _____

Contact No: _____

Department: _____

Head of Department: _____

Invoice Details

Invoice Attention to: _____

Company: _____

Industry: _____

Address: _____

Postcode: _____ Country: _____

Telephone: _____ Fax: _____

Email: _____

Authorized Signature : _____

Credit card Payment

Please Debit my credit card:

VISA MASTERCARD

Card Number: _____ - _____ - _____ - _____

Security Code: Expiry Date:

Named printed on card: _____

Signature: _____

Payment Method

By Direct Transfer: Please quote invoice numbers on remittance advice.

ACCOUNT NAME: PETRO1 SDN BHD
 BANK : United Overseas Bank (Malaysia) BHD
 ACCOUNT NO : 202 - 900 - 319 - 1 (SGD)

All bank charges to be borne by payers. Please ensure that PETRO1 SDN BHD received the full invoice amount.
*** Credit card payment will include a charges 2.8%**

Payment Policy: Upon receipt of a completed registration form, it confirms that the organization is registering for the seat(s) of the participant(s) to attend the conference or training workshop. Payment is required with registration and must be received prior to the event to guarantee the seat. Payment has to be received 7 working days prior to the event date to confirm registration.

Venue: All of our training courses are held in 4 – 5 star venues.

The course fee does not include accommodation or travel cost. It's recommended to book the hotel room early as there are only limited room available at the discounted corporate rate.

DATA PROTECTION

The information you provide will be safeguarded by Petro1 that may be used to keep you informed of relevant products and services. We take it seriously when it come s to protection of our client data.

Cancellation & Substitutions:

Upon receipt of a completed registration form, it confirms that the organization is registering for the seat(s) of the participant(s) to attend the conference or training workshop. Should you be unable to attend, substitutes are always welcome at no additional cost. Please inform us as early as possible. Payment is non-refundable if cancellation occurs 7 working days prior to event commencement. However a substitute is welcome at no additional charges. If cancellation occurs 5 working days prior to the registration date and there is no substitute, the organizer reserves the right to charge 50% of the total investment from your organization.

PETRO1 SDN BHD is not responsible for any loss or damage as a result of a substitution, alteration or cancellation/postponement of an event. PETRO1 SDN BHD shall assume no liability whatsoever in the event this training course is cancelled, rescheduled or postponed due to a fortuitous event, Act of God, war, fire, labor strike, extreme weather or other emergency.

Walk in Registration: Walk-in participants with payment will only be admitted on the basis of seat availability at the event and with immediate full payment.

Program Change policy: The organizer reserves the right to make any amendments and/or changes to the workshop, venue, facilitator replacements and/or modules if warranted by circumstances beyond its control.