



## Minitab Public Training 2009 in Hong Kong **Focus: Manufacturing**

- ▶ **Hands-on Approach** – Learn when and how to apply our software and practice your new skills immediately by working through exercises that mirror your own work.
- ▶ **Exceptional Instruction** – Participate in courses developed by subject matter experts and led by quality professionals with years of teaching and industry experience. Receive practical business solutions in a manner that is easy to understand.
- ▶ **Relevant Materials** – Train using materials designed specifically for quality professionals in manufacturing quality industries.
- ▶ **A great place to network** - Share your concerns, solutions, and accomplishments.

<b>Date:</b>	November 04 - 07, 2009 (4 Full Days)
<b>Time:</b>	9:00a.m. – 5:00p.m.
<b>Location:</b>	Six Sigma Institute Ltd. Unit 1627, 16/F, Star House, 3 Salisbury Road, Tsim Sha Tsui, Kowloon. <b>(Computers will be provided)</b>
<b>Course fee for 4 days– <i>Special offer:</i></b>	HK\$9,945.00 / US\$1,275.00 (MINITAB normal price: US\$1,700.00) <b>- including Certification &amp; training manuals</b>
<b>Extra discount:</b>	<b>For HKSQ member</b> Receive a <b>10% discount</b> if registered and pre-paid by deadline. Deadline: November 04, 2009. <b>Group Special</b> Receive a <b>5% discount</b> for a group of three or more from the same company. Deadline: November 04, 2009.
<b>Minitab Trainer:</b>	Dr. Scott Kowalski <a href="http://www.minitab.com/en-US/training/instructor-led/trainers.aspx">http://www.minitab.com/en-US/training/instructor-led/trainers.aspx</a>
<b>Language:</b>	English

### Manufacturing Quality Courses:

- ▶ Introduction to Minitab  
<http://www.minitab.com/en-HK/training/instructor-led/Course-Descriptions.aspx?eventid=3>
- ▶ Basic Statistics  
<http://www.minitab.com/en-HK/training/instructor-led/Course-Descriptions.aspx?eventid=2>
- ▶ Statistical Quality Analysis  
<http://www.minitab.com/en-HK/training/instructor-led/Course-Descriptions.aspx?eventid=4>
- ▶ Factorial Designs  
<http://www.minitab.com/en-HK/training/instructor-led/Course-Descriptions.aspx?eventid=5>

### Who Should Attend:

Green Belts, Black Belts, Supervisors, Managers, Engineers, Executives, Manufacturing and/or Service Quality concerned personnel and anyone who wants a better understanding of statistical procedures and application.



### Day 1 – Introduction to Minitab

Decrease the time required for statistical analysis by quickly learning to navigate Minitab's user-friendly and customizable environment. Learn how to import/export data and output between Minitab and various software and database systems. Enhance your ability to create, manipulate, and restructure data. Develop sound statistical approaches to data analysis by learning how to create and interpret a wide variety of graphs and numerical measures useful for quality improvement initiatives. This course focuses on the utilization of these tools as they pertain to applications commonly found in manufacturing, engineering, and business processes.

**Topics covered include:** Charts, Histograms, Boxplots, Dotplots, Scatterplots, Tables, Measures of Location and Variation, ODBC

***This course is a prerequisite for all other general Minitab courses.***

### Day 2 – Basic Statistics

Augment your graphical analysis skills using Minitab's powerful statistical tools. Develop the foundation for important statistical concepts such as hypothesis testing and confidence intervals. By analyzing a variety of real world data sets, learn how to match the appropriate statistical tool to your own applications and how to correctly interpret statistical output to quickly reveal problems with a process or to show evidence of an improvement. Learn how to explore critical features in your processes through statistical modeling tools that help to uncover and describe relationships between variables. A strong emphasis is placed on making good business decisions based upon the practical application of statistical techniques commonly found in manufacturing, engineering, and research and development endeavors.

**Tools Covered Include:** t-Tests, Proportion Tests, Tests for Equal Variance, Power and Sample Size, Correlation, Simple Linear and Multiple Regression, ANOVA and GLM

**Prerequisites:** *Introduction to Minitab*

### Day 3 – Statistical Quality Analysis

Develop the necessary skills to successfully evaluate and certify manufacturing and engineering measurement systems. Learn the basic fundamentals of statistical process control and how these important quality tools can provide the necessary evidence to improve and control manufacturing processes. Develop the skills to know when and where to use the various types of control charts available in Minitab for your own processes. Learn how to utilize important capability analysis tools, many enhanced in Minitab Release 15, to evaluate your processes relative to internal and customer specifications. The course emphasis is placed on teaching quality tools as they relate to manufacturing processes.

**Tools Covered Include:** Gage R&R, Destructive Testing, Gage Linearity, Gage Stability, Attribute Agreement, Variables and Attribute Control Charts, Capability Analysis for Normal, Non-normal and Attribute data

**Prerequisites:** *Introduction to Minitab, Basic Statistics*

### Day 4 – Factorial Designs

Learn to generate a variety of full and fractional factorial designs using Minitab's intuitive DOE interface. Real-world applications demonstrate how the concepts of randomization, replication, and blocking form the basis for sound experimentation practices. Develop the skills necessary to correctly analyze resulting data to effectively and efficiently reach experimental objectives. Use Minitab's customizable and powerful graphical displays to interpret and communicate experimental results to improve products and processes, find critical factors that impact important response variables, reduce process variation, and expedite research and development projects.

**Tools and topics Covered Include:** Design of Factorial Experiments; Normal Effects Plot and Pareto of Effects; Power and Sample Size; Main Effect, Interaction, and Cube Plots; Center Points; Overlaid Contour Plots; Multiple Response Optimization

**Prerequisites:** *Introduction to Minitab, Basic Statistics*



## Course Registration

<b>Course</b>	:	Quality Improvement in Manufacturing
<b>Date &amp; Time</b>	:	November 04 – 07, 2009, 09:00 – 17:00 ( <b>4 full days</b> )
<b>Location</b>	:	Six Sigma Institute Ltd. ( <b>Computers will be provided</b> ) Unit 1627, 16/F, Star House, 3 Salisbury Road, Tsim Sha Tsui, Kowloon.
<b>Course Fee for 4 days (Special offer)</b>	:	HK\$9,945.00 / US\$1,275.00 (MINITAB normal price: US\$1,700.00) - <b>including</b> Certification & training manuals
<b>Extra discount</b>	:	<b>For HKSQ member</b> - Receive a <b>10% discount</b> if registered and pre-paid by deadline. <b>Deadline: November, 04, 2009.</b>  Group Special - Receive a <b>5% discount</b> for a group of three or more from the same company. <b>Deadline: November 04, 2009.</b>

First Name : \_\_\_\_\_

Last Name : \_\_\_\_\_

Title : \_\_\_\_\_

Organization : \_\_\_\_\_

Department : \_\_\_\_\_

Address : \_\_\_\_\_  
\_\_\_\_\_

Tel : \_\_\_\_\_

Fax : \_\_\_\_\_

E-mail : \_\_\_\_\_

**For enquiries**, please feel free to contact Miss Iza Ng on (852) 3520 0520 and/or email your question(s) to [iza.ng@techmax.com.hk](mailto:iza.ng@techmax.com.hk).

### Registration Methods

Please fill the course registration form and return to us by fax (fax# 852.3520.0550) or email to [training@techmax.com.hk](mailto:training@techmax.com.hk). Upon receipt of this course registration form, Techmax will send to the applicant an acknowledgement of registration by email.

### Method of payment:

Please send payment by cheque made payable to "Techmax Information Technology (Hong Kong) Limited", to Room 906, Manchester Tower, 46 Pak Tin Par Street, Tsuen Wan, N.T. Hong Kong. Attn: Miss Iza Ng.

### Please note:

- 1) Full payment must be received in advance of the course. The reservation will be cancelled if there is no provision of evidence that the course fee is paid on or before November 03, 2009; for Early Bird Special applicants, please pre-paid by October 05, 2009.
- 2) Cancellation Policy for applicant who withdraws the course with any reason prior to the class.
  - More than three weeks prior to the class, the applicant receives a full refund.
  - Between two and three weeks prior to the class, the applicant receives a 50% refund.
  - Less than two weeks prior to the class, the applicant receives no refund.
- 3) An applicant may nominate a person to attend the course on his/her behalf (should notify Techmax prior to the class)
- 4) Techmax reserves the right to change the venue and/or time as necessary.
- 5) Techmax reserves the right to postpone the training if insufficient number of applicants and/or any reason(s) such as typhoon signal no. 8 or above OR black rainstorm warning is hoisted. Applicants will be notified when the class will be made up OR when the course fee will be refunded.