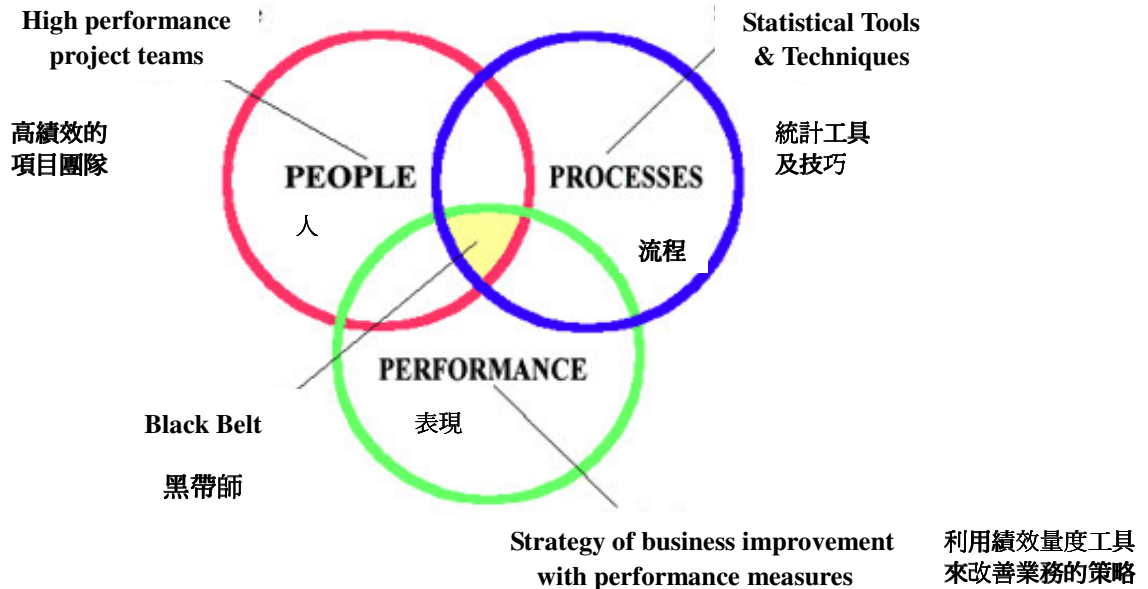


Certified Six Sigma Black Belt Workshop – 11th Intake

認可六西格瑪黑帶工作坊 – 第 11 期

11 October 2006 to 19 May 2007



Significant cost savings & benefits from hands-on projects in this workshop:

透過參與本工作坊的學員為其公司大幅節省成本及深獲裨益的項目俯拾皆是：

- A financial institute reduced the cost of handling complaints to save around HK\$3 million.
一家金融機構減省處理投訴成本約300萬港元。
- A garment factory achieved HK\$4 million savings per year.
一家製衣廠每年節省400萬港元。
- An electronics factory was able to cut prices, resulting in savings of US\$200K for her major customer in one year.
一家電子廠透過降低價格，協助其主要客戶節省20萬美元。
- An electrical supplier achieved cost savings of HK\$700K through cutting down the product return rate by over 100%.
一家電器產品供應商將退貨率減低超過100%，從而節省成本達70萬港元。
- A chemical plant achieved financial benefits of HK\$500K per year through lowering the rework rate.
一家化學品廠房透過減低返修率，節省50萬港元。
- A chemical company achieved cost savings of over HK\$400K through improving its ordering and invoicing process.
一家化學品廠房透過改善其訂單及發票流程，減省成本達40萬港元。
- An electronics manufacturer reduced cycle time and achieved a 30% WIP reduction in 1 year.
一家電子製造商透過縮短周期時間，在一年內將半製成品數量減少30%。
- An E&M contractor improved the process lead time by 100%.
一家電機工程承辦商改善流程時間達100%。
- A precision part manufacturer reduced the variation of measurements of produced parts by over 100%.
一家精密部件製造商將製成部件的尺寸偏差減低超過 100%。

Organised By:

Supported By:



香港工業工程師學會
INSTITUTE OF INDUSTRIAL ENGINEERS
(HONG KONG)

Please circulate this leaflet to those who are interested.



Background 背景

Originated at Motorola in the early 1990s, the “**Black Belt**” signifies the possession by an individual special expertise in statistics and product/process improvement. Motorola uses the term “**Black Belt**” to describe “an individual who has developed a synergistic proficiency between his or her technical discipline and the **Six Sigma** strategies, tactics and tools”.

六西格瑪由摩托羅拉公司於 1990 年代初提出，而「黑帶師」更突顯其個人在統計學及產品／流程改善方面具備特別的專長。摩托羅拉公司利用「黑帶」這個詞彙來描述那些「具備能夠將自己的技術領域與六西格瑪策略、方法和工具取得協同效果的人士」。

Objective 目標

- ✦ To develop candidates into competent Black Belts.
令學員成為幹練的黑帶師。
- ✦ To equip candidates with the necessary management skills to lead and coach Six Sigma teams on improvement projects.
讓學員裝備所需的管理技巧，使其能利用「教練」(coach)技巧，領導六西格瑪團隊執行改善項目。
- ✦ To develop candidates into internal “*change management*” consultants.
令學員成為企業內部的「變革管理」顧問。

Target Participants 目標對象

Engineers, Managers, Executives and those who wish to become Six Sigma Black Belts.

工程師、管理人員、行政人員及有意成為六西格瑪黑帶師的人士。

Speaker 講師

Dr. John Man is a well-known Certified Management Consultant and a Master Black Belt trainer. He has conducted a series of Six Sigma training programmes in Hong Kong, including Awareness (4 rounds), Green Belt (12 rounds), Black Belt (10 rounds) and Six Sigma Deployment (12 rounds). More than 1000 people have been trained by Dr. John Man.

Dr. John Man 是一位知名的認可管理顧問，並且是黑帶師的培訓師。他曾在香港舉辦一系列的六西格瑪培訓課程，包括認知課程（4次）、綠帶課程（12次）、黑帶課程（10次）及六西格瑪執行課程（12次），至今曾參與 Dr. John Man 培訓課程的人士逾 1,000 人。

Mode of Teaching	Lecturing, group discussion, games, examination & project assignment.
Medium of Instruction	The workshop will be conducted in English.
Certification Criteria	<ul style="list-style-type: none">■ Successfully complete the Black Belt Workshop (all modules).■ Successfully complete the implementation of at least 1 Black Belt project.■ Achieve over 60% or over in the examination.■ The completed Black Belt project should enable the organisation to achieve 3 – 4.5 sigma in a critical process that impacts on the organisation’s business objective and / or achieve audited cost savings of at least HK\$750,000.■ Reduce the Defects Per Million Opportunities (DPMO) in a critical process by at least 50%.
Certification Body	International Academy for Quality Certification (IAQC). Members of the Board of Councillors in the IAQC include Dr. John Man (SPI), David Hutchins (DHI), Donald Dewar (QCI) and Dr. Dallas Blankenship (WCTQ).
Fee	Hong Kong - HK\$34,500 / HK\$33,500 - enrol on or before 20 Sept 06. (including Black Belt Certification fee and lunch).
Application Deadline	3 October 2006
Maximum Capacity	18 participants
Remark	<ul style="list-style-type: none">■ Participants should bring their own notebook computers to the workshop (Specifications: CD ROM / USB Port enabled / Word and PowerPoint applications. Preferably Windows 2000 or above).■ Minitab software for doing the project should be prepared by the participants when attending the workshop.

Workshop Content 工作坊內容

Module One – Six Sigma Logistics and Define Phase 第一單元：六西格瑪後勤支持和界定

- ✦ Six Sigma Breakthrough Fundamentals
- ✦ The Need for Measurements
- ✦ New Value Creation in Relation to the “Voice of the Customer”
- ✦ Baselines and First Level Metrics
- ✦ Elements of Project Charter
- ✦ Thought Process Map
- ✦ Financial Planning
- ✦ Effective Leadership & working with groups

Module Two – Measure Phase 第二單元：測量

- ✦ Basic Statistical Analysis
- ✦ Process Mapping and “Bottleneck” Analysis
- ✦ Input, Process and Output Measurement
- ✦ Baseline Measures
- ✦ Measurement Studies
- ✦ Gage R & R
- ✦ Capability Studies

Module Three – Analyze Phase 第三單元：分析

- ✦ Fundamentals of Cause and Effect Analysis
- ✦ Correlation Techniques for “Root” Cause Confirmation
- ✦ Creative Solution Development – I AM WISE Principle
- ✦ The Search for Solutions and Evaluation
- ✦ Analysis of Variance (ANOVA)
- ✦ Contingency Planning for Solutions with FMEA
- ✦ Solution “Implementation Plan” and Effect Confirmation

Module Four – Improve, Experimentation and Testing Phase 第四單元：改善、實驗及測試

- ✦ Assessment of Implemented Solutions and Comparisons
- ✦ Hypothesis Testing for Verification
- ✦ Fundamentals of Experimentation
- ✦ Design of Experiments – Taguchi Methods
- ✦ 2 Level and 3 Level Factorial Design
- ✦ Overcoming “Resistance to Change” and Measuring Benefits
- ✦ “Roll Out” Solution Plan to Manage Change

Module Five – Control Phase 第五單元：控制

- ✦ Replication and Standardization Opportunities
- ✦ Control Plan
- ✦ Making Solutions “Stick” and Mistake Proofing
- ✦ Review and Modification of “Pilot” Run
- ✦ Team Performance Appraisal and Evaluation
- ✦ Storyboard Projects Review

Venue and Schedule

1/F., HKPC Building, 78 Tat Chee Avenue, Kowloon Tong, Hong Kong

九龍塘達之路78號生產力大樓一樓

Module One:	11 – 14 October 2006	Wednesday to Saturday: 14:30 – 17:30 (Wed) 09:30 – 17:00 (Thur to Sat)
Module Two:	15 – 18 November 2006	
Module Three:	10 – 13 January 2007	
Module Four:	7 – 10 March 2007	
Module Five:	16 – 19 May 2007	

Enquiries: Mr. Alan Kam Tel: 27886215 Fax: 27885011 Email: alankam@hkpc.org

Ms. Shirley Chan Tel: 27885016 Fax: 27885011 Email: slchan@hkpc.org

Website: www.hktrainingonline.com



Hong Kong
Productivity Council
香港生產力促進局

Enrolment Form

(*Please delete whichever inappropriate)

1. Course Certified Six Sigma Black Belt Workshop Duration 11.10.2006 – 19.05.2007

Course Code 40049832 Fee HK\$34,500 / HK\$33,500 – Early Enrolment on or before 20 Sept 06

2. Name (English) (Mr/Mrs/Ms*) 姓名 (中文) (先生/女士/小姐*)

Mobile/Pager _____ E-mail Address _____

3. Organisation _____

Position _____

Mailing Address _____

Tel. (Day) _____ (Night) _____ Fax _____

4. Payment Method
Enclosed is my cheque of HK\$_____. Cheque No._____. **(The cheque has to be crossed and made payable to the "Hong Kong Productivity Council.")**

Signature: _____ Date: _____

**** For cheque payment, please send the cheque for the appropriate fee with this completed form to Productivity Training Institute, 3/F., Hong Kong Productivity Council, HKPC Building, 78 Tat Chee Avenue, Kowloon Tong, HK. (Attn: Ms. Shirley Chan)**

**** For reservation (if applicable), please fax the completed form to (852) 2788 5011.**

Ref:30.5.06

IMPORTANT NOTE:

1. Course fee must accompany this form (or its photocopy), otherwise enrolment may be rejected.
2. HKPC has adopted a Personal Data (Privacy) Policy. Information about the policy is available at HKPC enrolment counters for collection. You may also contact our Personal Data Controlling Officer for further details.
3. Applicants are encouraged to pay by credit cards, EPS or cheques, if possible. Amount received will be imprinted. Cheques are subject to bank clearance.
4. Enrolment fee is **not refundable** unless HKPC is notified in writing of your withdrawal **at least 5 working days** before the course commences. A handling charge of HK\$200 will also be levied.
5. An applicant may, subject to approval from HKPC, nominate a person to attend the course on his/her behalf.
6. HKPC reserves the right to reject any application in any circumstances and for whatever reasons. Payment of fees should only be construed as conditional acceptance of application.
7. HKPC reserves the right to change the contents, venue and / or time as necessary.
8. Classes in the morning, afternoon or evening will be cancelled if typhoon signal No. 8 or above OR black rainstorm warning is still hoisted after (or is announced by the Hong Kong Observatory to be hoisted at/after) 6:00 a.m., 11:00 a.m. and 4:00 p.m. respectively. Participants will be notified when the class will be made up as soon as possible.