

Realise your potential.....



# Six Sigma Black Belt Training

for Operational and Design for Six Sigma  
Green Belts

Q3 2012 (Dates to be confirmed)

Silkeborg, Denmark



SCB Associates Ltd  
[www.scbuk.com](http://www.scbuk.com)

# Six Sigma Black Belts

Six Sigma Black Belts are “project leaders, skilled in the use of statistical methods and interpersonal communication, and dedicated to using Six Sigma methods to ensure customer satisfaction”. Black Belts are the real change agents within a business, ensuring that any Six Sigma programme realises its true potential. Many Six Sigma Black Belts find themselves in great demand within their companies and often rapidly progress up the organisation.

## Who Should Attend?

This Black Belt conversion course is designed for Operational (manufacturing) and Design for Six Sigma (DfSS) Green Belts who are looking to extend their Six Sigma knowledge and to act as mentors for Green or Yellow belts working in either a design or manufacturing role. The training programme consists of two modules of 4-days separated by a month. Delegates are encouraged to come to the training with high priority company projects that will provide an opportunity to apply the learning and go towards meeting certification requirements.

## Course Pre-requisites:

- Operational(manufacturing) or Design for Six Sigma Green Belt
- Access to Minitab software version 15 or later
- Comfortable with communicating and learning in English
- Willingness to learn and contribute to the interactive training

## Course Price includes:

- Attendance at both modules (8-days training)
- Comprehensive training materials and handouts
- Refreshments during the training including lunch
- 12 months access to technical helpline
- Guidance on project selection and on-going project support
- Black Belt certification (optional)-
  - Post training assessment testing
  - Interim review and feedback on project
  - Final project review and certification

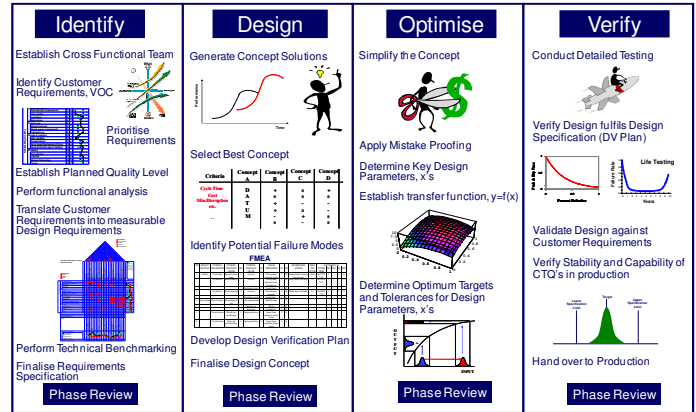
**Course fee – UK£2300 + VAT (approx DKK20.000)**

(Discounts available for multiple delegates attending from one company)

# Course Structure

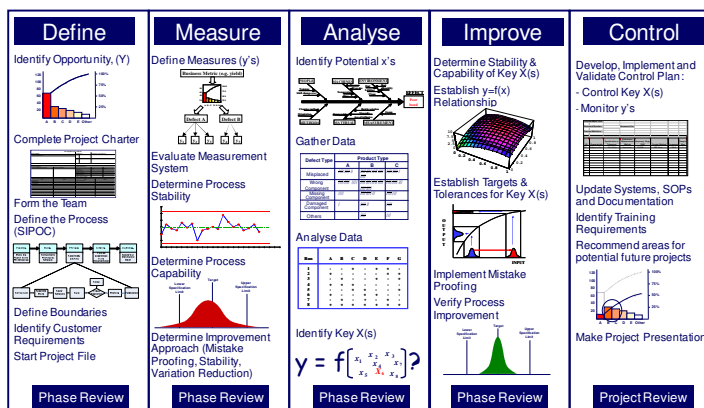
The interactive training format is based around instructor led teaching elements, backed up with exercises and practical hands-on workshops. The training will be split into two 4-day modules (Q3 2012):

- **Module 1:** To be confirmed
- **Module 2:** To be confirmed



## Topics to be covered include:

- DMAIC Operational and IDOV DfSS roadmaps
- Role of Black Belt, facilitation and project management
- Further Statistics – Review Green Belt statistics, attribute data analysis, distribution identification
- Hypothesis Testing – Review parametric testing, non-parametric testing
- Design of experiments – Review fractional and full factorial experiments, Response Surface Methodology, Optimal Design and augmentation, dealing with problems
- Control Charts – Review Xbar/R and IMR charts, Attribute charts, CUSUM
- Transfer function optimisation – Simplex and Interval optimisation methods using Vartran, Monte Carlo
- TRIZ Level 2 – Review Level 1, functional analysis, further Trends of Evolution, substance field analysis
- Company project presentations and discussions
- Practical hands-on workshops



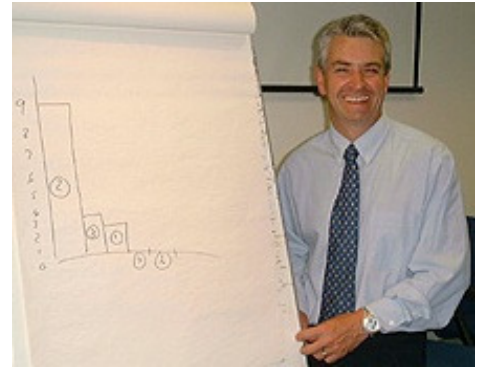
To reserve your place on the training or to discuss any questions that you may have, please contact us:

Email: [theoffice@scbuk.com](mailto:theoffice@scbuk.com)

Tel: +44 121 288 3960

## Course Instructor – Simon Barnard BSc Hons MIEE

Simon has more than twenty years experience teaching and consulting in Quality Improvement. An Electronics engineer by training, he spent his early career working on automotive and aerospace control systems for Lucas Research. In 1987 he was trained by Shin Taguchi (of ASI) in Taguchi Methods™ and was subsequently involved in its implementation within Lucas Industries.



He took the opportunity to bring Taguchi Methods™ to a wider audience by joining ASI in 1989 and quickly expanded his training portfolio into QFD and other Continuous Improvement areas. With colleague Ray Greenall they built up a successful Six Sigma training business that was taken over by BSI Management Systems in 2006. Simon left BSI in 2007 to set up his own training and consultancy organisation – SCB Associates.

In 2011 Simon was trained by TRIZ Master Sergei Ikovenko to further extend his portfolio of innovation and problem solving skills. His recent major clients include Vestas (Wind energy), Danfoss (Power Electronics and Drives), Schering Plough (Pharmaceuticals), Boston Scientific (Medical Devices) and Volvo Industries (Automotive and Aerospace).

Simon would be happy to discuss your questions about this training:

**email: [simonbarnard@scbuk.com](mailto:simonbarnard@scbuk.com) mobile: +44 7932 690110**

## Course Venue – Vejlsøhus, Ferskvandscentret, Silkeborg, Denmark



The beautiful white building of Vejlsøhus is over one hundred years old and was originally built as a sanctuary for TB patients. The site is also home to a business park and the Freshwater Centre (Ferskvandscentret). Vejlsøhus is a popular course and conference centre with an emphasis on the environment. In addition to AQUA, Northern Europe's largest freshwater aquarium, the area offers a

large beautiful park with many footpaths to experience the local nature. In addition to conference facilities the site offers overnight accommodation. For more information about the venue or to book accommodation please visit their website [www.vejlsohus.dk](http://www.vejlsohus.dk).

Silkeborg is within easy access of Billund airport with direct connections to Copenhagen, Amsterdam, Frankfurt, London and other international airports.

**[www.scbuk.com](http://www.scbuk.com) email: [theoffice@scbuk.com](mailto:theoffice@scbuk.com)**