

EXCELLENCE THROUGH ANALYTICS: BEYOND SIX SIGMA

Curriculum Series Overview & Black and Green Belt Certification Requirements

SCHEDULE OF COURSES, DATES, DURATION, AND COST:

1.) **Process Improvement Fundamentals**

- ▶ March 30-April 4, 2008
- ▶ One week
- ▶ \$4,500

2.) **Principles of Analytics: Fact-Based Management**

- ▶ May 12 - 16, 2008
- ▶ 3½ days
- ▶ \$3,500

3.) **Data Acquisition Strategies: Six Sigma and Beyond I & II**

- ▶ June 15 - 20 & July 21 - 25, 2008
- ▶ Two non-consecutive weeks
- ▶ \$7,500

4.) **Design of Experiments I & II**

- ▶ September 14 - 19 &
October 27 - 31, 2008
- ▶ Two non-consecutive weeks
- ▶ \$7,500

5.) **Transactional Six Sigma I & II**

- ▶ January 18 - 23 &
February 16 - 20, 2009
- ▶ Two non-consecutive weeks
- ▶ \$7,500

Course fees include materials, meals, and lodging. Individual course profiles are available on the above five courses that comprise

the *Excellence through Analytics* program.

- ▶ Location: Knoxville, Tennessee
- ▶ Prerequisites: See * below under Black Belt Certification. Experience and/or education can substitute in place of *Process Improvement Fundamentals*.

While the series of courses is designed to build sequential knowledge, participants can elect to take a course as a “stand alone” class based on need and existing knowledge.

- ▶ Program fees are subject to change. Visit our website (<http://TheCenter.utk.edu>) for the latest information.
- ▶ Class size is limited

REQUIREMENTS FOR GREEN BELT CERTIFICATION:

- ▶ *Process Improvement Fundamentals* course
- ▶ Successful grade on an applied exam
- ▶ Successful project work and completion as guided by program faculty member
- ▶ Additional fee for Green Belt Certification: \$2,000

REQUIREMENTS FOR BLACK BELT CERTIFICATION:

- ▶ *Process Improvement Fundamentals* (*optional—based on experience/education)
- ▶ *Principles of Analytics: Fact-Based Management*
- ▶ *Data Acquisition Strategies: Six Sigma and Beyond I & II*
- ▶ Project
- ▶ One Elective (must be “project-related”)

CURRICULUM SERIES OVERVIEW

Possible Elective courses:

Lean for Healthcare

Design of Experiments I & II

Lean Enterprise Systems Design Institute

Lean Applied to Administrative Processes

(Please see our website for elective course descriptions and dates – <http://TheCenter.utk.edu>)

- ▶ Black Belt fees include a telephone consultation prior to the first week of courses to develop a project plan. Additionally, a site visit to the participant's organization will occur at an agreed upon time during program weeks. Combining coursework with a project places the learning, skills, and tools in a meaningful context. For an additional fee, multiple site visits can be scheduled as requested by the organization or candidate, or as the project demands.
- ▶ Additional fee for Black Belt Certification: \$3,000

OVERVIEW OF “EXCELLENCE THROUGH ANALYTICS” SERIES

The five key courses that comprise the *Excellence through Analytics* series move an organization toward:

- ▶ Valuing knowledge acquisition over heroics
- ▶ Managing on fundamental principles that remain unchanged across time and initiative
- ▶ Leading using data and evidence-based management
- ▶ Using data and knowledge to guide decisions
- ▶ Achieving a culture of continual learning and thereby continuous improvement

PARTICIPANT PROFILE:

The *Excellence through Analytics* series is designed for an audience in organizational roles who have key responsibilities in managing or improving products, services, and processes. Those leaders and change agents who are directly involved in managing and implementing improvement projects and initiatives will find the content of the series invaluable for supporting them in their responsibilities.

FACULTY

▶ **Cheryl Hild** is a faculty member in the Department of Statistics, Operations, and Management Science. Prior to returning to the University of Tennessee, she served as a senior associate with Six Sigma Associates (SSA). Hild has over 16 years of experience leading organizational training in applied statistics, lean operations, and design of experiments. She also managed and worked many manufacturing, design, and administrative projects with managers and engineers at companies including Whirlpool, Allied Signal Aerospace, Bell Helicopter, PP&G, Cytec Engineered Materials, Pfizer Capsugel, and others.

Hild has authored numerous articles and is co-author of the book, *The Power of Statistical Thinking: Improving Manufacturing Processes*. She received her Ph.D. in Management Science and Industrial Statistics from the University of Tennessee.

▶ **Doug Sanders** brings to the center significant expertise as president of Six Sigma Associates. Over the past 15 years,

CURRICULUM SERIES OVERVIEW

he has guided the global transformational efforts of varying organizational processes in industrial and commercial organizations worldwide. Sanders received his Ph.D. in management science in 1996 from the University of Tennessee. He has authored a number of publications for both practitioners and academics. His research efforts focus on improving transactional processes within business and governmental organizations. Sanders teaches in the Center's process improvement programs.

- ▶ **Charles M. Cwiek**, Distinguished Lecturer in the Department of Statistics, Operations, and Management Science at The University of Tennessee, Cwiek specializes in the areas of industrial statistics, quality control methods, and process management. Cwiek teaches Introductory Statistics and Statistical Process Control to undergraduate students. In April of 2000, The University of Tennessee's College of Business Administration awarded Cwiek the Allen H. Keally Outstanding Teaching Award. For over 20 years, Cwiek has taught in various courses offered through UT's Center for Executive Education (CEE). In addition to his teaching responsibilities, he develops, produces, and manages the graphical content of teaching materials used in selected courses within CEE. Cwiek also serves as a consultant to industry in the area of statistical process control. He has worked primarily within the automotive components industry setting up measurement system evaluation studies. Cwiek received his BS and MS in Statistics from The University of Tennessee.

- ▶ **Allen Pannell** is an executive consultant, specializing in process innovation and re-design, leadership, six sigma, strategic planning, and process management.

Since 1982, Pannell has led numerous companies through their most difficult challenges. By helping them to achieve aggressive goals, these organizations became more profitable in a short timeframe and some experienced dramatic turnarounds.

Pannell received his Masters of Science in Statistics and Finance from the University of Tennessee. His prior experience includes work with Martin Marietta Energy Systems and 12 years with Tennessee Associates International, where he worked his way up from consultant to vice-president, serving as executive consultant and a member of its board of directors.

- ▶ **Tony Cooper** is an engineer (Rensselaer) and a statistician (University of Tennessee). This combination of skills and his experience in a multitude of industrial situations yields a unique insight into processes. Determining reliable improvement opportunities in processes requires disciplined, but well thought out, data acquisition. Cooper was a founder of Six Sigma Associates in 1994 and has mentored numerous process improvement projects. Cooper received a Ph.D. in Management Science from the University of Tennessee in 1996.

CURRICULUM SERIES OVERVIEW

FACILITIES

Classes are held in the executive classrooms in UT's Center for Executive Education. These facilities are designed to promote group interaction in an environment conducive to applied discussion, feedback, and the development of relational networks that frequently continue well beyond the on-campus experience.

Accommodations are single-occupancy rooms at nearby hotels. Transportation from the hotel to the Center and to dining is provided.

CONTACT

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