

IT 470a
Six Sigma Green Belt
Spring 2012

Catalog Description:

Study the knowledge areas of Six Sigma Green Belt. The purpose of this course is to provide the student with a comprehensive coverage of the techniques, tools, and applications of the methodology by the name “Six Sigma.” Real-life data from manufacturing companies will be evaluated (when available) and analyzed for a better understanding of the concepts to be learned in the course.

Course Objective:

This course will cover the knowledge areas of Six Sigma Green Belt. Topics include; Six Sigma goal, Lean principles, Theory of Constraints, Design for Six Sigma, Quality Function Deployment, Failure Mode and Effects Analysis, process management, team dynamics, project management basics, data and process analysis, probability and statistics, measurement system analysis, and process capability.

Important Dates/Times:

Class meets Saturday and Sunday 2/11-12, 2/25-26, and 3/10-11 from 8:00am-4:30pm

Test 1 – Afternoon 2/12

Test 2 – Afternoon 2/26

Test 3 – Afternoon 3/11

Assessment Methods:

Grade scale 90/80/70/60

1. 3 Exams (25% each, all comprehensive) – no late test accepted
2. Homework/ project work/ research (25%) – no late work accepted
3. Class participation (attendance)

Note: College policy on cheating and plagiarism will be adhered to.

Topical Outline:

Section II

Section III Test 1

Section IV

Section V

Section VI Test 2

Section VII

Section VIII Test 3

Text and Supplies:

Required: Statistical CSSGB PRIMER, Quality Council of Indiana,
www.qualitycouncil.com, 2006, or latest.
Scientific calculator (must have average, standard deviation, etc)
Recommended: Access to Microsoft Office or similar program

Class Layout:

Homework assignment – Q/A – Lecture – Exercise/Exam

Instructor:

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Disclaimer:

Circumstances may require some changes to this syllabus.