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American Public University System
American Military University | American Public University

ANLY647

Course Summary

Course : ANLY647 **Title :** Six Sigma Concepts & Tools
Length of Course : 8 **Faculty :**
Prerequisites : N/A **Credit Hours :** 3

Description

Course Description:

This course covers of the fundamentals of Six Sigma, describes the analytical tools used and introduces the problem-solving approach to streamline a process. The course covers phases of Six Sigma while outlining the essential steps and guidelines for a successful implementation of the Six Sigma initiative in an organization. Primary focus of the course is on the breakthrough strategy phases Define, Measure, Analyze, Improve, and Control (DMAIC). Goals and objectives of each phase and the associated tools and techniques are discussed to solve business problems.

Course Scope:

Course Description:

This course covers of the fundamentals of Six sigma, describes the analytical tools used and introduces the problem-solving approach to streamline a process. The course covers phases of Six Sigma while outlining the essential steps and guidelines for a successful implementation of the Six Sigma initiative in an organization. Primary focus of the course is on the breakthrough strategy phases Define, Measure, Analyze, Improve, and Control (DMAIC). Goals and objectives of each phase and the associated tools and techniques are discussed to solve business problems.

Course Scope:

This course is designed for students enrolled in the Business Analytics program. The emphasis is on the introduction of six sigma methodology and its implementation using breakthrough strategy phases to solve business problems. It aims to prepare those likely to pursue a formal six sigma certification.

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Objectives

After successfully completing this course, you will be able to:

CO-1: Understand the essentials of six sigma methodology

CO-2: Define and measure performance

CO-3: Prepare an organization for six sigma initiative

CO-4: Understand the Define phase

CO-5: Understand the Measure phase

CO-6: Understand the Analyze phase

CO-7: Understand the Improve phase

CO-8: Understand the Control phase

CO-9: Implement six sigma

Outline

Week 1: Introduction to six sigma/Defining quality and measuring performance

Learning Outcomes

CO-1: Understand the essentials of six sigma methodology

CO-2: Define and measure performance

Required Readings

Textbook for the course:

Six Sigma for Managers: A Briefcase Book, Second Edition

By: Greg Brue

Book: 272 pages

Publisher: McGraw-Hill © 2015

[https://apus.skillport.com/skillportfe/main.action#summary/BOOKS/RW\\$14034:_ss_book:86027](https://apus.skillport.com/skillportfe/main.action#summary/BOOKS/RW$14034:_ss_book:86027) Chapters 1 and 2

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Assignments

W1 Forum

W1 Quiz

Recommended Optional Reading

Recommended Media

Week 2: The Right Way to Implement Six Sigma

Learning Outcomes

CO-3: Prepare an organization for six sigma initiative

Required Readings

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Assignments

W2 Forum

W2 Quiz

Recommended Optional Reading

Recommended Media

Week 3: Define Phase

Learning Outcomes

CO-4: Understand the Define phase

Required

Readings

[https://apus.skillport.com/skillportfe/main.action#summary/BOOKS/RW\\$14034:_ss_book:86027](https://apus.skillport.com/skillportfe/main.action#summary/BOOKS/RW$14034:_ss_book:86027) Chapter 4

Assignments

W3 Forum

W3 Quiz

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Recommended Optional Reading
Recommended Media

Week 4: Measure Phase

Learning Outcomes

CO-5: Understand the Measure phase

Required Readings

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Assignments

W4 Forum

W4 Quiz

Recommended Optional Reading
Recommended Media

Week 5: Analyze Phase

Learning Outcomes

CO-6: Understand the Analyze phase

Required Readings

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Assignments

W5 Forum

W5 Quiz

Recommended Optional Reading
Recommended Media

Week 6: Improve Phase

Learning Outcomes

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CO-7: Understand the Improve phase

Required

Readings

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Assignments

W6 Forum

W6 Quiz

Recommended Optional Reading

Recommended Media

Week 7: Control Phase

Learning Outcomes

CO-8: Understand the Control phase

Required

Readings

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Assignments

W7 Forum

W7 Quiz

Recommended Optional Reading

Recommended Media

Week 8: Exam Week

Learning Outcomes

CO-1: Understand the essentials of six sigma methodology

CO-2: Define and measure performance

CO-3: Prepare an organization for six sigma initiative

CO-4: Understand the Define phase

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CO-5: Understand the Measure phase

CO-6: Understand the Analyze phase

CO-7: Understand the Improve phase

CO-8: Understand the Control phase

CO-9: Implement six sigma

Required

Readings

[https://apus.skillport.com/skillportfe/main.action#summary/BOOKS/RW\\$14034:_ss_book:86027](https://apus.skillport.com/skillportfe/main.action#summary/BOOKS/RW$14034:_ss_book:86027) Review all Chapters (1 through 8)

Assignments

Final Exam

Recommended Optional Reading

Recommended Media

Evaluation

Name	Grade %
Discussion Forums	21.00 %
Week 1 Forum	3.00 %
Week 2 Forum	3.00 %
Week 3 Forum	3.00 %
Week 4 Forum	3.00 %
Week 5 Forum	3.00 %
Week 6 Forum	3.00 %
Week 7 Forum	3.00 %
Assignments	12.00 %
Assignment 7	12.00 %
Quizzes	42.00 %
Quiz 1	6.00 %
Quiz 2	6.00 %
Quiz 3	6.00 %
Quiz 4	6.00 %
Quiz 5	6.00 %
Quiz 6	6.00 %
Quiz 7	6.00 %

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Final Exam	25.00 %
Final Exam	25.00 %

Grading:

Name	Grade %
Discussions	21.00 %
Week 1: Discussion	3.00 %
Week 2: Discussion	3.00 %
Week 3: Discussion	3.00 %
Week 4: Discussion	3.00 %
Week 5: Discussion	3.00 %
Week 6: Discussion	3.00 %
Week 7: Discussion	3.00 %
Quizzes	42.00 %
W1 Quiz	6.00 %
W2 Quiz	6.00 %
W3 Quiz	6.00 %
W4 Quiz	6.00 %
W5 Quiz	6.00 %
W6 Quiz	6.00 %
W7 Quiz	6.00 %
Assignment	12.00 %
Assignment 7	12.00 %
Final Exam	25.00 %
ANLY647 Final Exam	25.00 %

Materials

Book Title: Six Sigma for Managers, (Briefcase Books Series) 2nd Edition (Ebook available in the APUS Online Library)

Author: Brue, G.

Publication Info: McGraw Hill Lib

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ISBN: 9780071838634

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[027 ISBN:](#) ERESERVE NOTE

Course Guidelines

Phasellus eros sopien, lacinia eget veut vitae, viverro finibus neque Donec vulputate (empor erat id laoreet Nunc commodo ornare justo, sit omet ultrices magna pharetro quis Ut oc nunc in metus fermentum pellentesque eel quia leo. Fusce sodales diam eel tempor posuere ougue nsus ullamcorper quom, id vehiculo libero ante oc ipsum, Donec vitae purus magna Curobitur semper dui quis risus pretium finibus Phosellus non magna consecetur, faucibus magno et, ullamcorper eros. Ut oc nunc in metus fermentum pellentesque eel quia leo. Fusce sodales, diom eel tempor posuere, ougue risus ullomcorper quom, id vehiculo libero ante oc ipsum. Donec vitae purus magna. Curobitur semper dui quia risus pretium finibus. Phasellus non magna consecetur, faucibus magno et, ullomcocper eros. lacinia eget velit vitae, vrvecro finibus neque Donec vulputote tempor erot id looreet Nunc commodo ornare 'usto, sit omet ultrices magno phoretro quis. Ut oc nunc in metus fermentum pellentesque eel quis leo. Fusce sodales, diom eel tempor posuere, ougue risus ullomcocper quom, id vehiculo libero ante oc ipsum, Donec vitae purus magno. Curobitur semper dui quia risus pretium finibus. Phasellus non magno consecetur, faucibus magno et, ullamcorper ecos. Phosellus eros sopien, lacinia eget veut vitae, viverra finibus neque Donec vulputote tempor erot id looreet Nunc commodo ornare justo, sit omet ultrices magno phoretro quis Ut oc nunc in metus fermentum pellentesque eel quia leo. Fusce sodales, diom eel tempor posuer ougue nsus ullomcorpec quom, id vehicula libero ante oc ipsum. Donec vitae purus magno Curabitur semper dui quis risus pretium finibus Phosellus non magno consecetur, faucibus magno et, ullomcorpec eros.

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