

Cover/Signature Page - Abbreviated Template/Abbreviated Template with Curriculum

Institution Submitting Request: Utah Valley University
 Proposed Title: Six Sigma Green Belt Certificate
 School or Division or Location: College of Technology and Computing
 Department(s) or Area(s) Location: Technology Management
 Recommended Classification of Instructional Programs (CIP) Code¹ (for new programs): 52.0299
 Proposed Beginning Date (for new programs): 09/01/2015
 Institutional Board of Trustees' Approval Date: Pending

Proposal Type (check all that apply):

Regents' General Consent Calendar Items	
<i>R401-5 OCHE Review and Recommendation; Approval on General Consent Calendar</i>	
SECTION NO.	ITEM
5.1.1 <input type="checkbox"/>	Minor*
5.1.2 <input type="checkbox"/>	Emphasis*
5.2.1 <input checked="" type="checkbox"/>	Certificate of Proficiency*
5.2.3 <input type="checkbox"/>	Graduate Certificate*
5.4.1 <input type="checkbox"/>	New Administrative Unit
	Administrative Unit Transfer
	Administrative Unit Restructure
	Administrative Unit Consolidation
5.4.2 <input type="checkbox"/>	New Center
	New Institute
	New Bureau
5.5.1 <input type="checkbox"/>	Out-of-Service Area Delivery of Programs
5.5.2 <input type="checkbox"/>	Program Transfer
	Program Restructure
	Program Consolidation
5.5.3 <input type="checkbox"/>	Name Change of Existing Programs
5.5.4 <input type="checkbox"/>	Program Discontinuation
	Program Suspension
5.5.5 <input type="checkbox"/>	Reinstatement of Previously Suspended Program
	Reinstatement of Previously Suspended Administrative Unit

Chief Academic Officer (or Designee) Signature:

I certify that all required institutional approvals have been obtained prior to submitting this request to the Office of the Commissioner.

Signature

Date: 09/29/2014

Printed Name: Jeffery Olson, Senior Academic Vice President

¹ CIP codes must be recommended by the submitting institution. For CIP code classifications, please see <http://nces.ed.gov/ipeds/cipcode/Default.aspx?y=55>.

Program Request - Abbreviated Template
Utah Valley University
Six Sigma Green Belt Certificate
03/01/2014

Section I: Request

The Department of Technology Management in the College of Technology and Computing at Utah Valley University requests a Certificate of Proficiency in Six Sigma Green Belt for Fall 2015.

Section II: Need

The Technology Management Department is requesting the formalization of the Six Sigma Green Belt certificate so additional UVU students and professionals outside of UVU can have a path to complete this certificate. Six Sigma certification gives students the skills to improve quality within their businesses for a variety of processes, such as a manufacturing line or customer service procedure. Students who earn this certification will be 20% to 30% more beneficial to their companies and can increase their salaries five to 15 percent¹. Since 2010, the Technology Management department has been offering Six Sigma Green Belt certificates to students in the program who meet the requirements. A Six Sigma Master Black Belt instructor, who teaches classes for Technology Management, developed the certificate program and approves certificate requests. Students can complete a sequence of courses that are already taught in the Technology Management department to meet certificate requirements, including the core capstone course, where students are able to complete a culminating project that is approved by the Master Black Belt instructor. Six Sigma is a measure of quality that strives for perfection. By understanding desired outputs, inputs, and variables; a team can solve complex problems or improve processes to lower defects.

Six Sigma is recognized in business and industry in areas; such as assembly line, customer service, human resource, etc.). A number of professions in which students are employed desire this certificate, including the following: continuous improvement coordinator, production manager, project team leader, quality inspector, quality assurance manager, technology manager, etc.

The University of Utah offers a Lean Six Sigma Green Belt certification through 42 hours of training and a Lean Six Sigma Black Belt certificate, primarily for business professionals, through three days of training. Salt Lake Community College offers Lean Six Sigma Yellow Belt training, Lean Six Sigma Green Belt Certification Test Preparation, and Lean Six Sigma Black Belt Certification Test Preparation through their Business and Manufacturing Leadership Institute. UVU is unique because students receive Six Sigma instruction in core and elective courses as they move through the program. No additional courses or training costs are required.

Section III: Institutional Impact

The Six Sigma Green Belt certification has already been offered for over four years and is established as part of the existing Technology Management Bachelor of Science degree. Since Fall 2010, over 50 Technology Management students have received Six Sigma Green Belt certification in the department. In addition, this certificate will be part of the stackable credit model in Technology Management, since

students can apply it toward the BS program as it contains BS-required courses. All TECH courses are offered both on campus at UVU and online at least once a year. MGMT courses are also offered both on campus and online.

Section IV: Finances

The Six Sigma Green Belt certificate requires no additional courses or sections; thus, no additional faculty or support resources are needed.

Section V: Program Curriculum

Students must satisfy University Advanced Standing requirements to enter the certification program. Students must complete each course with a grade of "B" or higher to qualify for Six Sigma Green Belt certification.

Course Prefix and Number	Title	Credit Hours
TECH 3000	Introduction to Technology Management	3
TECH 3010 or MGMT 3170	Creative Innovation and Change Management or Entrepreneurship	3
Complete one of the following for 3 credits: ACC 3000 ACC 2020 MATH 1040 MATH 2040 MATH 3040 MGMT 2240 MGMT 2340	Financial Managerial and Cost Accounting Concepts (3.0) Managerial Accounting (3.0) Introduction to Statistics (3.0) Principles of Statistics (4.0) Probability and Statistics for Engineering and the Sciences (3.0) Business Quantitative Analysis (3.0) Business Statistics I (3.0)	3
TECH 3400	Project Management	3
MGMT 3470 or TECH 3700	Lean Management Systems or Materials Management	3
TECH 3850 or MGMT 3070	Quality Assurance in Technology or Total Quality Management	3
TECH 4000	Reliability Engineering and Safety	3
TECH 4400 or MGMT 3450	Advanced Project Management or Operations Management	3
TECH 4910	Senior Capstone Project	3
	Sub-Total	27
	Total Number of Credits	27

Program Schedule

Course Prefix and Number	Title	Credit Hours
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TECH 3000	Introduction to Technology Management	3
TECH 3010 or MGMT 3170	Creative Innovation and Change Management or Entrepreneurship	3
ACC 3000 or ACC 2020 or MATH 1040 or MATH 2040 or MATH 3040 or MGMT 2240 or MGMT 2340	Financial Managerial and Cost Accounting Concepts or Managerial Accounting or Introduction to Statistics or Principles of Statistics (4.0) or Probability and Statistics for Engineering and the Sciences or Business Quantitative Analysis or Business Statistics	3
MGMT 3470 or TECH 3700	Lean Management Systems or Materials Management	3
	Semester total:	12
Spring of First Year (Course Prefix and Number)	Course Title	Credit Hours
TECH 3400	Project Management	3
TECH 3850 or MGMT 3070	Quality Assurance in Technology or Total Quality Management	3
TECH 4000	Reliability Engineering and Safety	3
TECH 4400 or MGMT 3450	Advanced Project Management or Operations Management	3
TECH 4910	Senior Capstone Project	3
	Semester total:	15

¹Aveta Business Institute. Six Sigma Online. Retrieved from <http://www.sixsigmaonline.org/six-sigma-training-certification-information/articles/increased-earning-potential-with-six-sigma-certification-.html> on September 1, 2014.