

OPERATIONS EXCELLENCE CERTIFICATE

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Students in the program will learn how to implement lean systems in manufacturing, office, and service settings. They will focus on how to improve processes, plan, manage, and sustain continuous improvement and create strategic plans. The completion of this coursework prepares students toward the Six Sigma Black Belt.

Program Learning Outcomes

Upon completion, the student will be able to:

1. Describe each of the major aspects of lean systems.
2. Explain specific techniques related to establishing and maintaining a lean system.
3. Identify applications of lean techniques in manufacturing, service, and office settings.
4. Recognize the challenges and methods for managing and planning in a lean organization.
5. Discuss the organizational requirements to successfully sustain continuous improvement.
6. Control the flow of material with appropriate process documentation in the most efficient manner, while employing lean principles, operational flow strategies, value stream mapping, inventory control, and scheduling.
7. Develop skills to manage operations and strategically plan for the long-term viability of a manufacturing business for the purpose of promoting the mission, vision and core values

Technical Standards

See here for details.

Operations Excellence

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Code	Title	Hours
OET 1100	Operations Management	3
OET 1110	Introduction to Operations Excellence	3
OET 1120	Tools of Operations Excellence ¹	4
OET 2015	Statistics for SPC ¹	3
OET 2021	Advanced Tools of Operations Excellence ¹	3
OET 2120	Quality Management Systems	3
OET 2210	Logistics and Supply Chain	3
OET 2510	Lean Systems	3
OET 2970	Cost Analysis and Estimating	4
OET 2980	OET Capstone	3
Total Hours		32

¹ Completion of this coursework prepares students toward the Six Sigma Greenbelt.