

# GRADUATE CERTIFICATE LEAN SIX SIGMA

## Program Description

This online certificate program is designed for industrial professionals seeking insight into techniques of Lean Six Sigma systems while preparing for the Lean Certification by the professional associations, Six Sigma Green and/or Black Belt Certification and/or the Manager of Quality/Organizational Excellence Certification from the American Society for Quality (ASQ).

## Who is this certificate for?

- Industrial and service managers
- Supervisors
- Anyone who wishes to bridge their organization's productivity to Lean Six Sigma methods

## Program Objectives

Students will gain the most recent skills and knowledge in Lean systems, Six Sigma, quality tools and quality management principles while preparing for certification examinations.

## Specific Objectives include:

- Apply lean concepts in various industrial situations to eliminate waste and maximize quality.
- Use seven classic quality tools and techniques to problem-solve a given industrial scenario.
- Develop a continuous improvement plan using quality standards criteria established by the International Standards Organization (ISO) and Malcolm Baldrige Awards program.
- Prepare for Lean and/or Six Sigma Belts Certification, as well as the Manager of Quality/Organizational Excellence Certification from professional associations.



[ucmo.edu/sotgrad](http://ucmo.edu/sotgrad)



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SCHOOL OF  
INDUSTRIAL SCIENCES  
AND TECHNOLOGY

<b>Courses Offered</b> (All courses listed below are offered online)	<b>Credit Hours</b>	<b>Term Offered</b>
• *INDM 5130 - Lean and Quality Management OR • *ENGT 5580 - Quality Systems Engineering	3	Fall & Spring
• INDM 5212 - Production and Operations Management	3	Fall
• INDM 5222 - Principles and Practices of Lean Systems	3	Fall
• INDM 5232 - Seminar in Lean Six Sigma Implementation	3	Spring
• INDM 6580 - Advanced Strategic Quality and Standards	3	Summer

\*INDM 5130 or ENGT 5580 is a prerequisite course for INDM 5222, 5232 and 6580.

Note: The above guidelines are subject to change. Students should see an academic advisor for the latest information on program requirements.

## Admission to the Program

To be admitted, applicants must have completed a baccalaureate degree from an accredited college or university with a GPA of 2.5 overall. Applicants must also demonstrate proficiency in English communication and an ability to work in a technology management-driven environment.

1. Contact UCM Graduate Studies or apply online at [ucmo.edu/gradadmit](http://ucmo.edu/gradadmit).
2. Provide undergraduate transcripts and pay application fee.
3. GRE scores are not required for certificate study.

This program is a non-degree graduate program. However, courses completed as part of the certificate curriculum can be included in a program of study leading to MS Industrial Management and MS Technology. The School of Industrial Sciences and Technology graduate coordinator and advisor will advise students and confirm completion of certificate requirements.

## Requirements for the Graduate Certificate

1. Be accepted for admission to the certificate program by UCM Graduate Studies.
2. Complete the 15 credit hours and maintain a minimum 3.0 GPA.
3. Complete the program within six years and meet any additional standards and requirements of the UCM Graduate Studies.

For tuition & cost information, visit  
[ucmo.edu/costs](http://ucmo.edu/costs)

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