# Lean Six Sigma Black Belt (Graduate Certificate)

ESLSSBGRCT

In this Six Sigma program, you'll develop the advanced skills you need to build and lead teams and oversee continuous improvement projects in your industry.

### **Program description**

#### Degree awarded: Certificate Lean Six Sigma Black Belt (Certificate)

The Lean Six Sigma Black Belt graduate certificate is designed for engineers and managers who oversee tactical and strategic projects as well as various operational functions in their organizations.

This certificate program provides students with a set of contemporary tools to produce measurable improvements in business processes. Students gain an in-depth understanding of the Six Sigma define, measure, analyze, improve, control process and the tools used to achieve effective process and product improvement. They develop the leadership and team-building skills necessary for overseeing continuous improvement projects with many stakeholders, and they understand how lean principles and design for Six Sigma fit into the overall task of product and process improvement.

The culminating experience is in line with the black belt certification requirements used nationwide in similar certification programs.

# At a glance

- College/School: Ira A. Fulton Schools of Engineering
- Location: <u>Tempe</u> or <u>Online</u>

## **Degree requirements**

15 credit hours including the required capstone courses (IEE 585)

#### **Required Core (6 credit hours)**

IEE 570 Advanced Quality Control (3) IEE 581 Six Sigma Methodology (3)

**Electives (6 credit hours)** 

**Culminating Experience (3 credit hours)** IEE 585 Six Sigma Capstone (3)

#### **Additional Curriculum Information**

For electives, students should see the academic unit for the approved course list.

A minimum grade of "B" is required for capstone course IEE 585.

## **Admission requirements**

Applicants must fulfill the requirements of both the Graduate College and the Ira A. Fulton Schools of Engineering.

Applicants are eligible to apply to the program if they have earned a bachelor's or master's degree in any field from a regionally accredited institution.

Applicants must have a minimum cumulative GPA of 3.00 (scale is 4.00 = "A") in the last 60 hours of their first bachelor's degree program, or applicants must have a minimum cumulative GPA of 3.00 (scale is 4.00 = "A") in an applicable master's degree program.

All applicants must submit:

- 1. graduate admission application and application fee
- 2. official transcripts
- 3. proof of English proficiency

#### **Additional Application Information**

An applicant whose native language is not English must provide proof of <u>English proficiency</u> regardless of their current residency.

Required Prerequisite Courses: CSE 110 Principles of Programming, or equivalent IEE 380 Probability and Statistics for Engineering Problem Solving, or equivalent MAT 267 Calculus for Engineers III, or equivalent

No more than 40% of coursework toward the requirements of a graduate certificate may be completed prior to admission to the certificate program.

This certificate is also available through the Pathways for the Future program.

# **Tuition information**

When it comes to paying for higher education, everyone's situation is different. Students can learn about <u>ASU tuition and financial aid</u> options to find out which will work best for them.

## **Attend online**

#### **ASU Online**

ASU offers this program in an online format with multiple enrollment sessions throughout the year. Applicants may <u>view the program's ASU Online page</u> for program descriptions and to request more information.

## **Application deadlines**

Fall	
Spring	expand
Summer	expand
	expand

## **Program learning outcomes**

Program learning outcomes identify what a student will learn or be able to do upon completion of their program. This program has the following program outcomes:

- Apply the appropriate analytical and statistical methods when managing Lean Six Sigma projects.
- Apply the Lean Six Sigma methodology to the design and improvement of processes, products, and services.

# **Career opportunities**

Six Sigma is a proven systematic approach to continuous improvement of critical processes in a wide range of industrial environments such as banks, manufacturing facilities and hospitals. The American Society of Quality defines the certified Six Sigma Black Belt as a professional who can explain Six Sigma philosophies and principles, including supporting systems and tools.

# **Professional licensure**

ASU programs that may lead to professional licensure or certification are intended to prepare students for potential licensure or certification in Arizona. Completion of an ASU program may not meet educational requirements for licensure or certification in another state. For more information, students should visit the <u>ASU professional licensure</u> webpage.

# **Contact information**

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