Stanford MEDICINE | Improvement Science Professional Certification

Stanford MEDICINE | Stanford Center for Continuing Medical Education

Stanford MEDICINE Health Care

OVERVIEW

The Stanford Medicine Improvement Science Certification is a fully virtual, healthcare-focused, professional certification to bring improvement practitioners to the industry standard in improvement science. The certification requires the following:

1) 4 months of training (mix of flipped classroom and virtual learning)

2) Passing a LSSBB certification exam

3) Completion of a healthcare improvement project

4) Successful delivery of a project and skills defense

This course includes the following topics, taught using a healthcare lens:

1) Intro to Improvement Science in Healthcare

2) DMAIC, DMADV, Lean, Model for Improvement

3) AI and Design-Thinking

4) Basic and Advanced Statistics (Hypothesis Testing, Control Charts)

5) Root Cause Analysis

6) Operational Excellence in the Healthcare Setting

7) Data Visualization

8) Presenting and Publishing QI work

9) Coaching QI Projects

10) Sustainment and Reliability

WHO IS THIS PROGRAM FOR?

This course is designed for the aspiring healthcare improvement professional, covering the industry standards for a Lean Six Sigma Black Belt certified practitioner, with additional content that will help you thrive in the healthcare space.

Potential Job Roles:

- Improvement Scientist
- Improvement Advisor
- Consultant
- Analyst
- Manager
- Director
- Quality Engineer
- Educator
- Physician Quality Lead
- Nurse Quality Lead
- Executive Leaders

Applicants must have:

- Lean Six Sigma Green Belt or RITE/CELT (or equivalent)
- Experience with projects and project teams

This certification class is taught by some of the brightest people I have had the privilege to work with and learn from. My perspective has changed, and I learned new techniques on how to approach improvement in healthcare, and yours will too!

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Sara Stafford, MSN, RN, PCCN-K

PROGRAM EXPERIENCE

20+ hours
of learning faculty & LinkedIn videos

10+ hours
of coaching & mentorship

28+ hours
of virtual office hours & classroom

1 year
access to LinkedIn Learning and QI Macros

SAMPLE WEEKLY PROGRAM PLANNER

The training portion begins in February and ends in May. Learners should expect to dedicate between 4-7 hours per week during the teaching portion of the program.

- 2 hours of virtual classroom time
- 1-2 hours of assigned videos
- 1-2 hours of case study or other assigned homework
- 1 hour of optional office hours

PROGRAM COMPONENTS

Lean Six Sigma Black Belt Portion

You will be taught the DMAIC approach to improvement science, utilizing all the skills that would be expected of a Black Belt.

Generalizing & Sharing Knowledge

You will be taught and coached on how to prepare and present content to an executive audience.

AI and Human Centered Design

You will learn how to leverage AI and Human-Centered Design concepts in your improvement work.

Data Visualization

You will learn the difference between data for analysis and data for presentation, and how to create compelling visuals for all audiences.

Coaching & Leadership Presence

You will be taught how to coach teams throughout their project and will learn how to present yourself and your project to senior leaders.

Completion of a Case Study

You will complete a health-care case study as part of the curriculum.

LSSBB Written Exam

You will be required to pass a 50-question exam with a 80% or better.

Completion of an Improvement Project & Oral Project Defense

You will be required to lead a complex improvement project and present it to our faculty by the end of the calendar year.

PROGRAM FACULTY

STANFORD MEDICINE

Ryan Darke
Director of the LSSBB Program
Improvement Team at Stanford Medicine
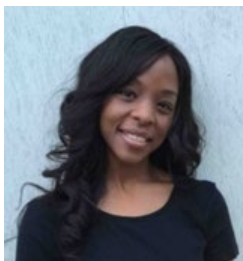Data Analysis Specialist

Jake Mickelsen
Director, Improvement Capability
Improvement Team at Stanford Medicine

Hurley Smith
Director, Improvement Team
Improvement Team at Stanford Medicine

Jakaria Stewart
Principal Improvement Professional
Improvement Team at Stanford Medicine
Executive Consulting Specialist

PROGRAM RESOURCES

To support the training and learning experience, each course participant receives 1-year subscriptions to the following, included as part of their tuition payment.

Teaching is provided by a mix of Stanford Medicine instructors and industry experts accessed through LinkedIn Learning. Guest speakers include Stanford Medicine executive leaders, physicians, nurses, and certified alumni from prior cohorts.

Additionally, a Stanford-based mentor is provided for each participant to assist with learning comprehension, project coaching, and defense preparation.

PROGRAM COST

Program cost is $4,000 ($2,000 for candidates who work at Stanford Medicine)

CONNECT & APPLY

Those interested in participating in the 2024 Cohort can apply here by the 1/5/2024 deadline (dates & course prerequisites are included in the application form):

APPLY NOW!

https://app.smartsheet.com/b/form/6719a9251d5f4233aa4e73de16517989

Please share with anyone you think is qualified and interested in taking the next step in their improvement science journey.

We are looking forward to this!

Connect with us: rdarke@stanfordhealthcare.org