

Faculty Development in QI  
FY 2024 Course Schedule

<b>October 5, 2023</b>		
<b>Topic</b>	<b>Description</b>	<b>Learning Objectives</b>
Pre-class preparation (45 minutes before class)	Watch the following short videos before class: <a href="#">History of QI</a> <a href="#">Improvement methods</a> <a href="#">Team Roles</a> <a href="#">Stakeholder analysis</a>	Compare and contrast Lean, Six Sigma, and the Model for Improvement Name the roles of QI team members and the stages of team development Identify key stakeholders and strategies to engage them
Background	Considerations for forming your team and choosing a project	Apply the stakeholder analysis tools to your project to facilitate team recruitment
	A3 as a format for organizing your thinking and reporting results	
Project Charter	Using segmentation to set project scope	Explain the approach to project segmentation.
	Breakout activity - Start a project charter for your project	Succinctly define the purpose, scope, and benefit of a project.
Describing current state	The 5P analysis	Describe the 5P framework for microsystem analysis
	Basic process mapping	Identify key performance data for the process(es) you seek to improve
	Breakout activity - Create a basic Process Map of your project	Create a high-level process map

<b>October 26, 2023</b>		
<b>Topic</b>	<b>Description</b>	<b>Learning Objectives</b>
Pre-Class preparation (30 minutes)	<a href="#">Choosing measures</a> <a href="#">Writing Aim Statements</a>	
Introduction	Debrief using 5Ps and starting a project charter	Describe your microsystem
Basic process mapping	Debrief process maps	Create a high-level process map for your project
Measurement	Strategies for choosing measures, identifying sources and collecting data	Explain what is meant by a balanced set of measures.
	Breakout - Create balanced set of measures and operational definition for at least 1 of those measures	Operationally define a measure.
	Large Group De-brief	
Problem Analysis & Writing Aim Statements	How do you analyze a problem to identify promising solutions?	Explain how PI tools are used to analyze a problem.
	Breakout - Create Cause and Effect Diagram & understand the role of observations of your process	Use PI tools to identify and prioritize improvement opportunities
	Breakout: Write an aim statement for a near-term goal	Describe key features of an effective aim statement.
Wrap up	Homework between now and next session Complete a project charter and review w/ sponsor Identify a balanced set of measures for your project	

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<b>November 16, 2023</b>		
<b>Topic</b>	<b>Description</b>	<b>Learning Objectives</b>
Pre-Class preparation (60 minutes)	<a href="#">Reliability, human factors, and strengths of interventions</a> <a href="#">High Reliability Organizations</a> <a href="#">The Reliability Design Strategy</a> <a href="#">PDSA Cycles</a>	Describe strategies and interventions that improve the reliability of processes. Design a test-of-change using the PDSA cycle.
Introduction	Debrief any general issues with project charter, developing balanced measures, collecting baseline data, mapping process, and drafting an aim statement	Review homework and outline for the session.
Prioritizing interventions	Change concepts, Estimating impact and difficulty for potential interventions	Use a Benefit/Difficulty matrix to prioritize interventions
	Breakout: Impact/Difficulty matrix for project and put your interventions in the order you propose to do them	
Reliability in Health Care	Human Factors Engineering, and the Reliability Design Strategy	Identify at least 2 threats to high reliability in health care
	Breakout: Discuss the application of reliability science to your project.	Cite the 4 steps of the Reliability Design Strategy
PDSA cycles	Designing and deploying small tests of change	Explain how to effectively deploy the PDSA cycle
	Breakout: Design a PDSA cycle	
Wrap up	<u>Homework between now and next session</u> Draft an A3 progress report with analysis and improvement plan	

<b>December 7, 2023</b>		
<b>Topic</b>	<b>Description</b>	<b>Learning Objectives</b>
Pre-work (10 minutes)	View video on <a href="#">Communication Plans</a>	Plan for communication to support your project work.
A3 review	Quick review of the A3 format and the progress reports of projects	Describe progress on your project using the tools and concepts covered so far in the course.
Data display and sampling	Measurement strategy and frequency, sampling for QI, display of data on a run chart	Describe how a run chart is constructed. Design a measurement strategy appropriate to your project. Explain how to use sampling in your measurement strategy.
Change management and communication planning	Change is usually more challenging than expected. Barriers and strategies for change management are presented. An effective communication plan is essential. Breakout activity: Write an elevator speech for your project	Identify strategies to overcome barriers to change. Create an elevator speech for your project.
Wrap up	<u>Homework between now and next session</u> Begin implementing PDSA cycles, bring run chart to next class. Use your communication plan.	

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<b>January 18, 2024</b>		
<b>Topic</b>	<b>Description</b>	<b>Learning Objectives</b>
Pre-work	View videos on <a href="#">Understanding variation</a> <a href="#">Run chart rules</a> <a href="#">Statistical Process Control (SPC) Charts</a> Create and upload a run chart of your data	Define common and special cause variation Identify when a change in process has occurred by using run charts and SPC charts
The Red Bead Game	A demonstration of random variation	Describe the nature of random variation and human tendency to feel we have control over it
Responding to variation	The effects of variation on processes and outcomes Reducing artificial and process variation	Explain effects of variation on patient flow and teamwork Identify strategies to reduce unwarranted variation
Run chart review	Review examples of your data so far	Plot your data on a run chart and determine if your process is stable and in control
Wrap up	<u>Homework between now and next session</u> Continue conducting tests of change and tracking data Update your A3 project report	

<b>February 15, 2024</b>		
<b>Topic</b>	<b>Description</b>	<b>Learning Objectives</b>
Pre-work	<u>Upload your updated A3 with a run chart of your data and your interpretation of results to date</u>	Correctly interpret data on a run chart
A3 review	Review your A3, the basis for your project poster	Correctly interpret data on a run chart
Teaching QI	Ways to incorporate QI principles into the teaching and clinical environments so that all are continuing to learn	Identify opportunities to teach QI in the clinical workspace
Wrap up	<u>Homework between now and next session</u> Continue conducting tests of change and tracking data Create your poster and practice the project presentation	

**March 14, 2024**  
 5:30 – 8 PM  
 Project presentations