



Health Catalyst University™ Program Catalog



Nurturing a Data-Driven Culture

As the speed of change and the number of challenges continue to grow in healthcare, leaders increasingly recognize the urgency of using data and analytics to guide decisions and drive improvement. Yet, making data available isn't sufficient to achieve this goal. Leaders must nurture a data-driven culture where people correctly interpret and use data for decisions—and then execute their decisions within a proven improvement framework.

▶ Our analytics and improvement offerings are divided into two categories.

- **Literacy Credential** or mastery of concepts | Learners complete the coursework and successfully pass an exam to receive a literacy credential
- **Practices Certification** or mastery of applying the concepts | Learners complete coursework and a real-world project to demonstrate their ability to use the competencies to receive an application certification

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SpotCheck Knowledge Scans | Online

SpotChecks are free assessments designed to identify knowledge, confidence, and struggle, so you know how to best support your team members with their personal development needs.

SPOTCHECK: ANALYTICS AND IMPROVEMENT LITERACY FOR ANALYSTS

This 50-question SpotCheck provides a glimpse into current knowledge across eight critical competency areas to move from reactive report writing to proactively discovering insights that lead to meaningful improvements. The competency areas include healthcare data, healthcare operations, data analysis, data visualization, process improvement, communication, project management, and data modeling.

SPOTCHECK: ANALYTICS AND IMPROVEMENT LITERACY FOR LEADERS

This 25-question SpotCheck provides leaders with a glimpse into their current knowledge across five areas of data and analytics literacy: healthcare data, healthcare operations, understanding and interpreting analysis, basic data visualization, and process improvement.

Literacy for Leaders | Online

Every day, healthcare executives and managers swim in an ocean of data, dashboards, and reports. But dashboards and reports alone don't yield dramatic and sustained improvements. This series of powerful learning experiences will enhance leaders' analytics literacy, enabling them to generate more meaningful insight from their data. They are delivered in an online platform that facilitates rapid and effective learning that leads to better patient outcomes.

HEALTHCARE DATA

3 modules | 3 CLUs

Develop a basic understanding of the most common forms of data within healthcare, including terminologies, coding systems, groupers, and risk models. Effectively engage with available data and ultimately produce more meaningful insights for improvement.

HEALTHCARE OPERATIONS

4 modules | 5 CLUs

Gain a general understanding of the healthcare industry, including the current policy environment, the most common payment and delivery models, revenue cycle and supply chain, and labor management.

UNDERSTAND AND INTERPRET ANALYSIS

3 modules | 5 CLUs

Work with competent analysts to get the correct data, and then analyze and interpret it in a way that generates meaningful insights.

DATA VISUALIZATION BASICS

1 module | 2 CLUs

Uncover how human beings consume visual information and recognize how to effectively design visualizations to take advantage of those tendencies.

PROCESS IMPROVEMENT

2 modules | 3 CLUs

Learn the foundational concepts, language, tools, and processes involved in improvement work.

PROJECT MANAGEMENT

2 modules | 1 CLU

Gain the foundational skills crucial for every role within healthcare regardless of the type or size of the project

COMMUNICATION

3 modules | 3 CLUs

Develop the flexibility and adaptability in communication to ensure that information shared is information received. Increase written and oral communication effectiveness by recognizing, considering, and adjusting the message according to the audience and medium.

Literacy for Analysts | Online

Analysts bring the most value to healthcare organizations when they can solve problems and become partners in clinical and operational improvement work. This requires an ability to contextualize and analyze the data to surface improvement opportunities—and then communicate those opportunities with their leaders. This analytics and improvement program provides analysts with the core competencies needed to move from reactive report writing to proactively discovering insights that lead to meaningful improvements.

HEALTHCARE DATA

3 modules | 3 CLUs

Develop a basic understanding of the most common forms of data within healthcare, including terminologies, coding systems, groupers, and risk models. Effectively engage with available data and ultimately produce more meaningful insights for improvement.

HEALTHCARE OPERATIONS

4 modules | 5 CLUs

Gain a general understanding of the healthcare industry, including the current policy environment, the most common payment and delivery models, revenue cycle and supply chain, and labor management.

DATA ANALYSIS

3 modules | 4 CLUs

Use industry best practices to perform basic comparative and descriptive analysis, and leverage run charts and statistical process control charts to understand variation.

DATA VISUALIZATION

1 module | 2 CLUs

Uncover how human beings consume visual information and recognize how to effectively design visualizations to take advantage of those tendencies.

PROCESS IMPROVEMENT

2 modules | 3 CLUs

Learn common concepts, language, tools, and processes involved in improvement work.

COMMUNICATION

3 modules | 3 CLUs

Develop the flexibility and adaptability in communication to ensure that information shared is information received. Recognize, consider, and adjust according to the audience and medium, increasing the effectiveness of written, oral, and consulting communication.

DATA MODELING

3 modules | 3 CLUs

Effective data governance solutions begin with a deep understanding of the data. The basic principles of data modeling are essential before diving into the tools Health Catalyst offers that assist in analysis and visualization.

PROJECT MANAGEMENT

2 modules | 1 CLU

Gain the foundational skills crucial for every role within healthcare regardless of the type or size of the project.

SUBJECT AREA MART DESIGNER (SAMD)

[Health Catalyst Platform Clients Only]

3 modules | 2 CLUs

SAMD is a tool that provides a simple visual user experience for creating and deploying custom data marts in the EDW. SAMD simplifies that process and reduces the amount of time to create SAMs from months to minutes.

ATLAS

[Health Catalyst Platform Clients Only]

2 modules | 1 CLU

This web-based index of metadata enables data owners and stakeholders to securely access data and collaboratively standardize common definitions

IDEA

[Health Catalyst Platform Clients Only]

2 modules | 1 CLU

Build and deploy custom web applications to collect data not captured in an EDW for critical reporting and analysis. Create as many applications as you need, manage them in a central place, and scale them to meet enterprise needs.

SOURCE MART DESIGNER (SMD)

[Health Catalyst Platform Clients Only]

2 modules

In the Health Catalyst architecture, source marts are at the ground-level that extract data directly from the source with minimal transformations. Source Mart Designer (SMD) is a Health Catalyst tool for mapping source system tables and columns automatically to source marts, capturing metadata for every field, and storing them in a central repository, eliminating time-intensive custom source scripting.

EXTRACT, TRANSFORM, LOAD (ETL)

4 modules

Strong ETL processes ensure data integrity and increase efficiency when moving data by standardizing and automating procedures. It is essential to understand how ETL processes work and can be maintained.

DOS OPERATIONS CONSOLE

[Health Catalyst Platform Clients Only]

3 modules

DOS Operations Console is a web-based tool that provides a flexible scheduling engine for data warehouse managers and data engineers to create jobs that load data the way they choose. Highly configurable job definitions allow users to choose which tables to load, how to validate the load, and opt to send notifications on the status of the load.

QLIKVIEW STANDARDS

2 modules

QlikView is a handy tool for presenting analytic dashboards. At Health Catalyst, we use QlikView for much of our reporting. Understanding the standards HCAT team members follow when developing within QlikView ensure a consistent look and feel in HCAT QlikView applications.

Certification for Analysts Blended Learning

This analytics and improvement certification program includes the 11 Analytics and Improvement Literacy online courses (28 modules), coach-supported real-world application exercises, a capstone project, and certification exams that assess mastery.

Certification for Improvement Teams

Blended Learning

In this analytics and literacy program, learners apply the principles and practices of Health Catalyst's Three Systems approach to achieve measurable improvements. This hands-on, team-based program leverages the 7 Guiding Questions framework to empower participants to lead a project as they learn. The virtual program is coach-supported and incorporates a flipped-classroom approach with 14 live, highly interactive virtual sessions over 29 weeks.

UNDERSTAND THE PROBLEM

12 weeks | 68 CLUs

Recognize the need for quality as a business strategy for healthcare organizations. Using a combination of data analysis, improvement theory, and leadership principles, identify an improvement opportunity, and study both the system and the people within to create shared focus and understanding.

KNOW WHERE YOU WANT TO BE

3 weeks | 10 CLUs

Use temporal data analysis and process analysis to understand the current stability and capability of the process and establish reasonable expectations for project outcomes.

KNOW THE CAUSE OF THE PROBLEM

3 weeks | 10 CLUs

Engage with those who do the work to understand the true drivers of suboptimal process performance and avoid implementing ineffective solutions.

KNOW WHAT AND HOW TO CHANGE

3 weeks | 10 CLUs

Use the results of the process analysis and root cause analysis to identify and prioritize possible tests of change. Engage with key stakeholders to gauge feasibility and desirability.

APPLY AND MEASURE CHANGES

1 week | 2 CLUs

Leverage change management skills to implement a test of change into the system and capture the early results.

DETERMINE IF THE CHANGES RESULTED IN AN IMPROVEMENT

3 weeks | 7 CLUs

Leverage statistical techniques against preliminary data to determine if the change has improved reliability, process performance, or both

SUSTAIN THE CHANGES

4 weeks | 5 CLUs

Ensure the long-term success of the project by preparing for future change iterations and transitioning ownership to key stakeholders.

Executive Sessions | Live Classroom

MAKING DECISIONS WITH DATA

This half-day activity will take learners through an immersive simulation, where they will gain empathy for the work that is required to translate data into improvement.

The electronic age of medicine provides healthcare systems with more data than ever before. But data alone does not bring insight nor improvement. Data must be interrogated, scrutinized, and ultimately translated into opportunities for improvement. To realize this promise of data, healthcare leaders must recognize the need for new skills, evolved processes, and more focused systems.

PRIORITIZING IMPROVEMENT OPPORTUNITIES

This half-day activity will help learners effectively govern and direct the improvement work within their organizations.

As analysts translate data into insights that leaders then translate into proposals, executives fill the role of prioritizing, resourcing, and championing these proposals. They must balance these proposals with limited resources and ensure selected proposals align with the organization's goals and aims.

Have a question?

Contact Us

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