QLIK EDUCATION

Data Literacy
Instructor-Led Sessions & Descriptions
Qlik Data Literacy Program

- World’s leader in Data Literacy
- World's first stand alone Data Literacy certification
- Founding member of the Data Literacy Project
- Product Agnostic
- Comprehensive offering consisting of Training, Assessments, Certifications and Services

“Our vision is for a data-literate world. Where people, businesses, organizations, and governments tackle their most complex challenges with data."
– Mike Capone, Qlik CEO
Instructor-led Sessions

Topics

- Why Data Literacy
- Data Literacy Culture (Executive)
- Data-Informed Decision Making Framework
- Mitigating Bias with Data
- Measurement Frameworks and KPIs
- Data and Analytics Strategy
- Analytical Thinking
- Descriptive Analytics
- Diagnostic Analytics
- Communicating with Data
- Challenging Assumptions with Data
- Active Listening with Data
- Strategic Foresight and Enterprise Thinking with Data
- Ethics with Data
- AI/ML
Instructor-led Session

Why Data Literacy

DESCRIPTION

The world is a world of data, and everyone knows it. The ability to understand, utilize, and effectively utilize data to make smarter decisions and communicate is no longer a nice to have. This introductory workshop is designed to share thoughts, ideas, and a high-level scope towards the world of data and analytics, the definition of data literacy, and what organizations can do to implement effective and powerful data literacy initiatives.

Class Type and Duration

Instructor-Led

Recommended Audience: up to 40 attendees

60-Minutes
Instructor-led Session

Data Literacy Culture

DESCRIPTION

As organizations have invested more and more money, trying to harness the power of their own personal data, they are running into problems and headaches. Historically, to solve data and analytic problems, organizations have invested more and more software. The problem with this? The number one roadblock to data and analytic success is not technology, but the culture of the organization. Is the organization ready to absorb and utilize data effectively? Have individuals truly been given the right skills to drive data and analytic adoption?

This session is designed to help organizations evolve their data culture, utilizing the power of data literacy and incremental steps to help the shift occur. The audience will learn different levels of data and analytical strategy, the role of leadership to drive data-driven work, and 7-tips to help implement a strong data literate culture.
Instructor-led Session

Data Literacy and Culture

DESCRIPTION

To help an organization succeed with data and analytics, the executive and leadership teams within an organization need to be properly prepared and ready to drive and succeed with data, analytics, and data literacy. This workshop will take the premise and core learning from 2 existing data literacy workshops: “Data Literacy” and “Data Literacy Culture” and bring it to the executive and leadership suites. This workshop will help to empower and enable to leaders to support the initiatives the organization is taking from a data literacy perspective.

Class Type and Duration

- Instructor-Led
- Recommended Audience: up to 40 attendees
- 60 to 90-Minutes
Data-informed decision making is the ability to transform data and information into actionable and verified knowledge to ultimately make business decisions. There is a spectrum of critical capabilities that need to be in place at an organizational level to support this. There needs to be a data-literate workforce that understands how to read, work with, analyze, and argue with data. There needs to be a data strategy in place to ensure the data is high quality and trusted. There needs to be a data analytics framework to properly analyze the data. There needs to be a set of skills and practices in place and supported, including thinking systemically, critical thinking with data, leveraging a cognitively diverse workforce, active listening, and the ability to communicate and tell stories with data. All of this needs to be supported by an organizational culture that embraces these capabilities and data-informed decision making. This session will introduce these critical capabilities with use cases and examples.
Mitigating Bias in Data

Decision making with data can be a complex process, which requires a lot of information to be processed simultaneously; making it a very complicated computational task for the brain. Studies show that there can be up to 11 million pieces of information thrown at the brain per second. But the brain’s conscious level can only process about 40 pieces of information per second. To solve these problems, we rely on simplifying heuristics, or intuition, rather than logical reasoning. This has helped humans make decisions quickly and helped humans survive and evolve in the primitive days. The risk of this is that at times irrelevant, contextual information leads to making inconsistent, illogical, and implicitly biased choices. This risk is now magnified since we are in the age of digital transformation with constant change and technological advancements. We are still fighting for survival, but now survival from ourselves and our own destruction. Decisions leveraging data are now more important than ever. This session will introduce cognitive bias, how it impacts our decision making with data, and strategies to mitigate these biases.
This session will introduce the concept of a measurement framework, and how to determine the right key performance indicators (KPI) for your business, including both leading and lagging indicators. Industry-standard frameworks for KPI development like the SMARTER criteria and the Balanced Scorecard Strategy have been used for decades in guiding decision making, but now, access to massive quantities of data, has created processes of measurement for measurement’s sake and KPI overload. Select the KPIs that matter the most to your business, report, evolve and refine your KPIs on a schedule to create a KPI driven culture and boost data literacy across your teams.
One of the most important requirements for data-informed decision making is the analytics strategy. This session will focus on an analytical framework and strategy that will help decision makers turn data into insights. What a data-driven process is, what are the success pillars of a data-driven organization, Time-To-Answer and the effect an integrated platform can have with accelerating that process with examples and use cases.
Instructor-led Session

Analytical Thinking

DESCRIPTION

This course provides learners an opportunity to explore a wide range of topics about today’s analytical landscape. Learners will gain an understanding of the four common types of analytics and their applications. Tackling the analytical mindset is essential to success with data and will have immediate impacts on how you approach your next analytical endeavor.
Instructor-led Session

Descriptive Analytics

DESCRIPTION

This course will introduce the concept of a measurement framework, and how to determine the right key performance indicators for your business, including both leading and lagging indicators. The session will also explain how to describe data for your metrics, how to organize your data and finally how to visualize your data for descriptive analytics.

Class Type and Duration

- Instructor-Led
- Recommended Audience: up to 40 attendees
- 60-Minutes
Diagnostic analytics is an approach to analysing data where you take a bird’s eye view of the data and try to make some sense of it. With diagnostic analytics, you look across all your data together to get a feel for the data and use your judgement to determine what the most important aspects of the data are and how they may relate to each other. It starts the hypothesis into why it may have happened. This is absolutely critical when making data-informed decisions. This course covers how to visualize your data in various visualizations, and how to drill down into various categories of your data, investigating patterns, anomalies, and outliers.
You may have just come up with a decision that will save your organization millions of dollars, or save countless lives, or something else just as spectacular. However, if you cannot communicate the right information at the right time in the right way to the right people, your decision may be ignored or ostracized. Your ability to come up with key insights to help with your decision is one skill but communicating it out is completely another. Good communication of your data-informed decision can help stakeholders understand, accept, and then act on the decision. This session will focus on how you can define your audience, plan your story, and craft your story using data.
Instructor-led Session

Challenging Assumptions with Data

DESCRIPTION

Evaluating and identifying assumptions clears the way for gaining insights from your data. This session will focus on understanding frameworks for identifying and evaluating assumptions to facilitate innovation, collaboration and thought-provoking dialogue. You will learn how to identify opportunities and guard against limiting beliefs; learn to assess the assumptions that shape your perspective and decisions with data.

Class Type and Duration

Instructor-Led

Recommended Audience: up to 40 attendees

60 to 90 Minutes
Active Listening with Data

DESCRIPTION

Communicating with data is a critical component of maximizing investments with data. However, communicating with data is not just about presenting data; it is equally important to be actively listening when trying to gather requirements and perform diagnostic analytics and anything that can help you understand the context of the data.

Class Type and Duration

- Instructor-Led
- Recommended Audience: up to 40 attendees
- 60-Minutes
Instructor-led Session

Strategic Foresight and Enterprise Thinking with Data

DESCRIPTION

Turning data into wisdom requires the ability to step outside of outdated mental models, the ability to think non-linearly and to apply strategic foresight to learn from the future. Increase awareness of linear bias while focus on outcomes and not indicators.
The data revolution has created a new wave of concerns about privacy and other ethical uses of data. The challenge of ethical data collection and use is one facing many organizations today and conquering it can help your organization gain a competitive edge in the data marketplace. In this session we will talk about the tenets of ethical data usage and provide a framework for incorporating ethical data practices in a practical and scalable way.
Artificial Intelligence and Machine Learning are at the forefront of the data revolution. This course is designed to understand the reason for the explosion of AI/ML and cut through the hype. Provide understanding of practical use cases and the capability for AI/ML while avoiding potential pitfalls along the way.
Instructors

Dr. Paul Barth  
Global Head of Data Literacy

- PhD in Electrical Engineering and Computer Science from Massachusetts Institute of Technology
- Masters in Computer Science from Yale University
- Creator of the industry-leading Podium big data management platform. Paul has spent decades developing advanced data and analytics solutions for Fortune 100 companies and is recognized thought-leader on business-driven data strategies and best practices.

Kevin Hanegan  
Chief Learning Officer

- Masters in Organizational Performance and Workplace Learning from Boise State University
- Bachelors in Computer Science and Mathematics from Villanova University
- Chair of the Advisory Board, the Data Literacy Project, faculty member of Boise State University and Oregon State University and author of multiple books on data-informed decision-making and data analysis.

Joe Franklin  
Data Science Curriculum Developer

- Masters in Science Predictive Analytics from Northwestern University
- Bachelors in Applied Statistics from Rochester Institute of Technology
- Curriculum developer for the Qlik Data Literacy Instructor-Led and Online Learning modules. Featured Speaker at Data Con on Using Data Literacy to Build Insights Driven Culture.
“We are seeing the most data literate employees really enjoying the autonomy, driving business growth and accelerating their careers. We believe everyone should have the opportunity to make important decisions based on accurate insights and achieve in their job role.”
– COO, Quooker

“In the digital economy, all our staff are users of data, and we’re working with a huge range of abilities. The need to up-skill needs to be taken seriously – particularly since we are under intense competitive pressure and need to operate as efficiently as possible.”
– Head of Business Intelligence and Data Products, Lloyd’s of London

“I was given the opportunity to attend the Foundation of Data Analytics training. For me, the biggest take-away was exposure and training my mind to read, work with, analyze and argue with data. Qlik – you’re on to something.”
– Commercial Reporting Training Manager, CSL Behring
THANK YOU.

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