

# Qlik Education

## Instant Empowerment

**Qlik**  LEAD WITH DATA™

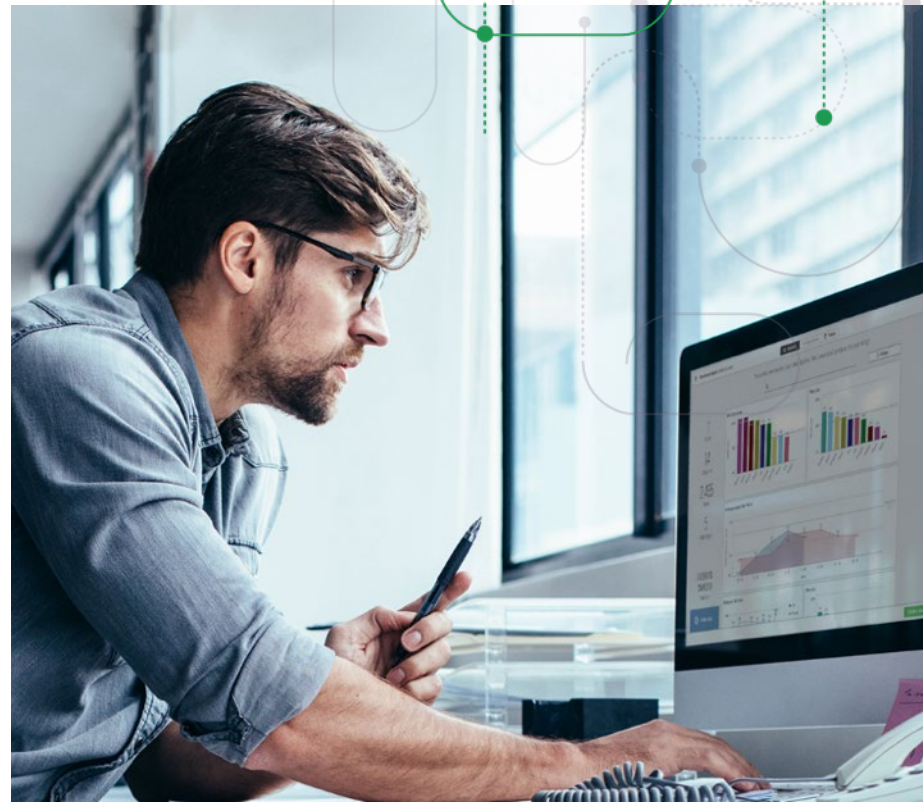


# It's Not About What You Know. It's About What You Can Do.

Qlik Education delivers coursework, tools, and programs designed to teach you the true capabilities of Qlik and how you can use them to perform your job – not just repeat memorized features and functions. By partnering with Qlik Education, you can rapidly develop, deploy and use Qlik to deliver great outcomes for your business.

## Engaging Qlik Education enables your users to:

- Start using Qlik applications more quickly
- Understand the complete range of Qlik capabilities
- Interact with experienced instructors to facilitate learning
- Contribute to organizational effectiveness which increases the value of your investment in Qlik



# About Qlik Education

Qlik Education offers a rich mix of training options, resources and technology, all designed to maximize success of your development, deployment and use of Qlik.

Courses are available in a variety of training formats to provide flexible learning options. Whether you are a business user, business analyst, data architect, system administrator or web developer, Qlik has a training option to meet your needs.

We will work with you to define your precise training requirements, to make sure that yourself or your staff gets the right level of learning and performance support (learning that the user accesses in their day-to-day job) at the right time in the deployment life cycle.

And our learning content covers not only the capabilities and competencies of Qlik's products, but also analytics and data literacy learning - complementary skills that are not Qlik specific, but are required for you to perform your job.

## With Qlik Education your organization will:

- Enhance performance
  - Get your business users to peak productivity and maximize your ROI
- Drive collaboration
  - Train groups of coworkers together so they rapidly understand how Qlik's social visual analytics potential enable them to collaborate on analytics like never before
- Learn what's important to you
  - Along with standard courses, Qlik offers tailored workshops to train your users to use Qlik applications based on your needs and requirements



## Why Qlik Education?

Qlik Education accelerates the adoption of data and analytics by providing environments which remove common learning barriers and provide users with a structured path to take full advantage of Qlik's products.

# Qlik Education in Figures



**38**

countries where  
we deliver public or  
private training



**317**

global cities where  
we deliver public or  
private training



**13**

languages taught



**8,279**

skills assessments  
were taken in 2019



**1,861**

certifications were  
earned in 2019

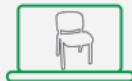
# Training Format Options

When it comes to learning, one size does not fit all. Therefore, Qlik offers a wide variety of delivery methods to suit different learning preferences, organizational logistics, and the needs of specific Qlik user roles.



## Instructor-led

This delivery method is a traditional, in-person classroom training approach, where our expert instructor leads a group of students through demonstrations and hands-on exercises. You can attend at a public classroom location globally or privately at your office location.



## Virtual Instructor-led

This delivery method is a live instructor-led course, held in virtual classrooms online. Students access the courses via web conferencing technologies and are provided access to software via a cloud-based solution. An instructor leads a group of students through demonstrations and hands-on exercises. A private option for delivery to your organization is also possible.



## Private Training

Private training is a perfect option when you have a group of up to 10 users who need the same training. Private classes can be held at your facility, virtually, or a combination of classroom and virtual.



## Self-paced Training

The Qlik Continuous Classroom is our subscription-based, self-paced training platform. It's the perfect training complement to ensure success in your continuous learning journey. The Qlik Continuous Classroom is designed to provide only the learning you need, right at your fingertips – anytime, anywhere, always. Features include video-based modules, exercises and quizzes, smart search feature and collaboration tools to interact with students and instructors.

# Role-based Education

All our training options are role-based, to ensure that all essential job-related tasks are covered in each role's core courses, while tasks that apply to only certain users, as well as advanced tasks, are covered in elective master courses

## User role descriptions



### Business User

Use pre-built applications to analyze data and make informed data driven decisions



### Business Analyst

Create powerful, clean, cutting-edge visualizations. Learn best ways to help users explore information and gain critical insights on multiple devices



### Data Architect

Manage and consolidate data from different tables and sources and integrate them into a clean dashboard interface



### System Administrator

Manage security and platform architecture, including reloading and publishing of documents



### Enterprise Architect

Architect and secure your Qlik platform, user accessibility and application access rule administration

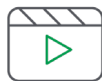


### Web Developer

Embed and integrate Qlik Sense using Qlik Sense APIs and extend apps with custom visualizations

# Qlik Learning Portal

Our Qlik Learning Portal is your one-stop shop for all of your learning needs. Take our pre-training assessments and post-training qualifications and certifications. Access our self-paced online courses inside the Qlik Continuous Classroom. Register for instructor-led classes, and find all the supporting training materials for the class you are attending. Stay current with access to the very latest resources.



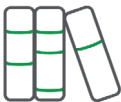
Video  
Tutorials



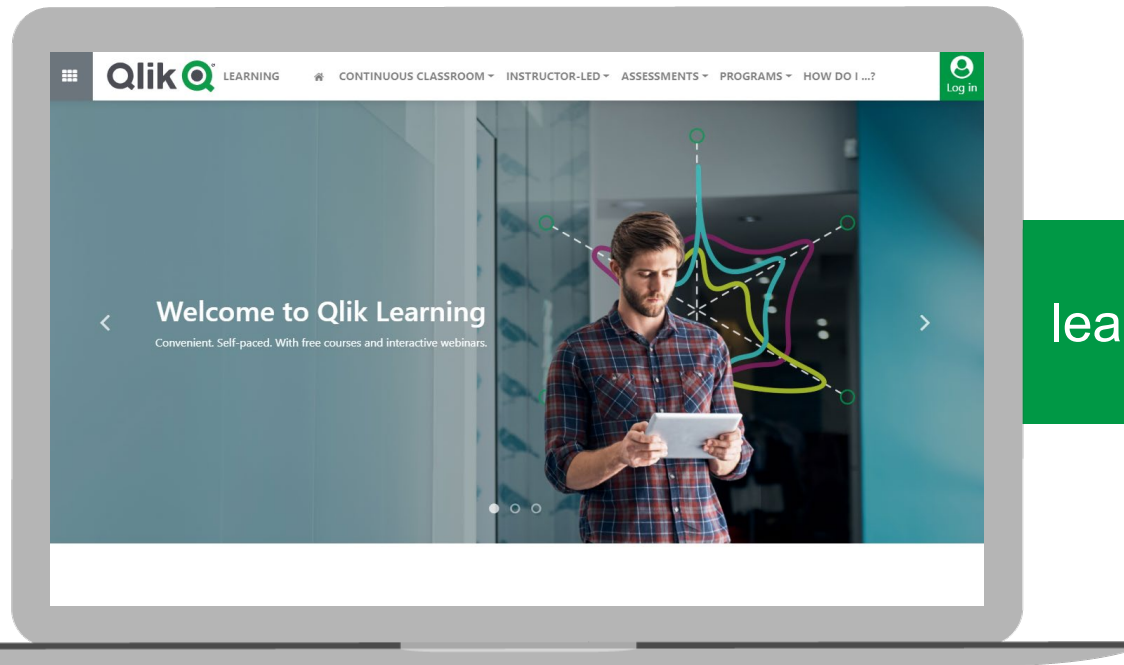
Self-Paced  
Training



Instructor-Led  
Materials



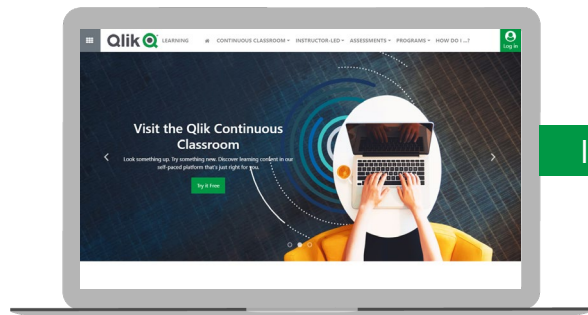
Resource  
Library



[learning.qlik.com](https://learning.qlik.com)

# Qlik Continuous Classroom

The Qlik Continuous Classroom is our self-paced training designed to provide only the learning you need, right at your fingertips – anytime, anywhere, always. We know your job does not stop: sometimes you can't wait for the next class to learn what you need, nor do you always have the time to block days in your schedule for instructor-led training. The Qlik Continuous Classroom is the perfect training complement to ensure success in your continuous learning journey.






[learning.qlik.com/qcc](https://learning.qlik.com/qcc)

**Look it up. Learn it. Right when you need it.**

- Video-based learning modules
- Reference guides, exercises and quizzes
- Smart search for learning at point of need
- Live webinars and 1:1 instructor course support
- Personalized learning plans

## Annual Subscriptions

	 New User	 Individual	 Corporate
	FREE FOR ALL	PAID	PAID
		BA DA	FULL ACCESS UP TO 10, 50, 250, 1000, UNLIMITED
Business User	●	●	●
Data Literacy	●	●	●
Business Analyst (BA)	◐	●	●
Data Architect (DA)	◐	●	●
System Administrator			●
How Do I's Videos	●	●	●
Other Resources*		●	●

\* Qualifications exams, live webinars, 1:1 instructor course support





# Words From Our Customers

"Thanks to Qlik Education Services, we've achieved a rapid ROI. Qlik Education has helped us transform our working culture with customized designer training."

"My instructor was outstanding. His ability to pace himself and the class, his subject matter, expertise, patience, communication, steadfastness, ad hoc troubleshooting ability, and cheerful disposition are a rare combination."

"Qlik Continuous Classroom is another example of how Qlik is delivering innovative solutions and approaches."

# Table of Contents

Find here all the information you need about Qlik's portfolio of education services offerings. It is organized into five main sections:

## Qlik Sense Courses and Certifications

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- [Data Modeling for Qlik Sense](#)
- [Deploy and Administer Qlik Sense](#)
- [Qlik Sense for QlikView Developers](#)
- [Create Reports with Qlik NPrinting](#)
- [Embed Analytics with Qlik Sense APIs](#)
- [Advanced Topics in Design and Development](#)
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- [Qlik GeoAnalytics](#)
- [Big Data Solutions with Qlik Sense](#)
- [Advanced Scripting Capabilities](#)
- [Qlik Sense Business Analyst Certification](#)
- [Qlik Sense Data Architect Certification](#)
- [Qlik Sense System Administrator Certification](#)

## QlikView Courses and Certifications

- [QlikView Course Overview](#)
- [QlikView Designer](#)
- [Create Reports with Qlik NPrinting](#)
- [QlikView Developer](#)
- [QlikView Server Publisher](#)
- [Advanced Topics in Design and Development](#)
- [QlikView Business Analyst Certification](#)
- [QlikView Data Architect Certification](#)
- [QlikView System Administrator Certification](#)

## Data Literacy and Analytics

- [Data Literacy Program Overview](#)
- [Creating a Data Literate Organization](#)
- [Data Literacy Certification](#)
- [Understanding Data Principles](#)
- [Data Analytics Certification](#)

## Data Integration Courses

- [Qlik Replicate](#)
- [Qlik Compose for Data Warehouses](#)
- [Qlik Compose for Data Lakes](#)
- [Qlik Catalog](#) (formerly Qlik Data Catalyst)

## Programs

- [Qlik Skills Assessment](#)
- [Qlik Custom Application Training](#)
- [Qlik Academic Program](#)

# Qlik Education

## Qlik Sense Courses and Certifications



# Qlik Sense Course Overview



## Self-paced Learning

Self-paced learning platform featuring video-based modules, exercises and quizzes, and tools to collaborate with instructors and students.



## Instructor-led Training (ILT)

Live instructor-led courses delivered in-person at public classrooms or privately at your facility. Demonstrations and hands-on labs included



## Virtual Instructor-led Training (VILT)

Live instructor-led courses delivered in a virtual training environment. Collaboration with instructor and other students included.

	Core Learning	Elective Learning	Self-Paced Learning
	<p>Fundamental concepts and best practices. Competency in most frequently used job skills. Can lead to certification.</p> <p>ILT and VILT classes are available.</p>	<p>Solutions and best practices for common challenges. Specialized tasks related to job functions.</p> <p>On-demand, ILT, VILT and customized special events are available.</p>	<p>A virtual environment for on-demand videos, online collaboration and expert instruction.</p> <p>Qlik Continuous Classroom courses are available.</p>
<b>Business User</b>	<a href="#"><u>Custom Application Training (bespoke on-demand)</u></a>		<a href="#"><u>Qlik Continuous Classroom for Business User (Free)</u></a>
<b>Business Analyst</b>	<a href="#"><u>Create Visualizations with Qlik Sense</u></a> <a href="#"><u>Create Reports with Qlik NPrinting</u></a>	<a href="#"><u>Advanced Calculations and Expressions</u></a> <a href="#"><u>Qlik GeoAnalytics®</u></a>	<a href="#"><u>Qlik Continuous Classroom for Business Analyst</u></a>
<b>Data Architect</b>	<a href="#"><u>Data Modeling for Qlik Sense</u></a>	<a href="#"><u>Big Data Solutions with Qlik Sense</u></a> <a href="#"><u>Advanced Scripting Capabilities</u></a>	<a href="#"><u>Qlik Continuous Classroom for Data Architect</u></a>
<b>System Administrator or Enterprise Architect</b>	<a href="#"><u>Deploy and Administer Qlik Sense</u></a>		
<b>Web Developer</b>	<a href="#"><u>Embed Analytics with Qlik Sense APIs</u></a>		

# Create Visualizations with Qlik Sense

## Description

Create Visualizations with Qlik Sense, a scenario-based course, addresses the fundamentals required to enable you for self-service visualization and discovery. The course combines demonstrations and hands-on exercises to teach the essential concepts for designing beautiful and effective Qlik Sense visualizations and guided stories. Additionally, you will look in depth at the different visualizations and select the appropriate one for your data and the type of questions you need to answer.

### Class Type and Duration

- Instructor led or Virtual Instructor led\*
- 2 days

### Course Prerequisites

- Building an app tutorial (visit Qlik Help for more information)
- Recommended: [Understanding Data Principles](#)

### Audience

- Business Analysts
- Data Architects

### Skills Learned

- Build Qlik Sense dashboards and create guided stories to share your insights.
- Look in depth at the different visualizations available in Qlik Sense and learn how to select the appropriate visualization/s to answer your data questions.
- Perform advanced analysis in a Qlik Sense app.
- Identify data types and explain how they are interpreted as visualizations.
- Design and create visualizations, based on user-centered workflows, for others to use.
- Discuss concepts of data visualization and how they are implemented in Qlik Sense.
- Identify best practices for Qlik Sense visualization design.
- Share insights with Qlik Sense guided storytelling.
- Explain how Qlik Sense's responsive design enables developing multi-screen design.
- Prepare the apps and share them with others.

### Course Outline

- Analyzing data with Qlik Sense
- Preparing data for analysis
- Introducing visualizations
- Working with other visualizations and properties
- Controlling data selections
- Storytelling and finalizing the app

### Qualifications

- Qualification Exams are now available with training purchase to prove a fundamental knowledge of Qlik Sense.
- Visit our [website](#) for more information.



# Data Modeling for Qlik Sense

## Description

Data Modeling for Qlik Sense is a technical course for you to learn to develop a coherent data model in Qlik Sense by loading and transforming multiple data sources. With information, tools, techniques, and exercises, this course includes topics dealing with: maintaining data connections, transforming source data, architecting data models, optimizing for performance, and application development on Qlik Sense Enterprise. **NOTE:** The course objectives for this course closely align with the QlikView Developer course. You do not need to take this course if you have already taken the QlikView Developer course.

### Class Type and Duration

- Instructor led or Virtual\* Instructor led
- 3 days

### Course Prerequisites

- Recommended: [Creating Visualizations with Qlik Sense](#)
- Database and SQL query knowledge
- Recommended: [Understanding Data Principles](#)

### Audience

- Data Architects
- Business Analysts

### Skills Learned

- Create a data model in Qlik Sense
- Use the Data Load Editor and the Data Manager
- Create and maintain data connections
- Resolve data structure issues and script errors
- Transform data for better performance
- Discuss synthetic keys and circular references
- Add dimensions and measures to the master library
- Add simple visualizations with Qlik Sense

### Course Outline

- Modeling data with Qlik Sense
- Sourcing and loading data
- Resolving common modeling issues
- Generating data
- Combining tables
- Handling advanced modeling challenges
- Developing and Debugging
- Applying finishing touches
- Exploring security and advanced concepts

### Qualifications

- Qualification Exams are now available with training purchase to prove a fundamental knowledge of Qlik Sense.
- Visit our [website](#) for more information.

# Deploy and Administer Qlik Sense

## Description

Deploy and Administer Qlik Sense is a technical course that provides you with the information, tools, techniques, and skills necessary to deploy, set up, configure, and maintain Qlik Sense Enterprise on a Windows platform. In addition, you will explore security architecture configurations, load balancing, and single sign-on methods. Take advantage of Qlik Sense's enterprise-class governance capabilities for ensuring quality, accuracy, and security of data and analytics.

### Class Type and Duration

- Instructor led or Virtual Instructor led\*
- 2 days

### Course Prerequisites

- Fundamental knowledge of IT business systems and operations
- Knowledge of Windows Server OS, Active Directory (or other user directory service)
- Basic system security awareness
- Understanding of Qlik Sense or QlikView recommended

### Audience

- System Administrators or Enterprise Architects

### Skills Learned

- Understand deployment plan requirements
- Understand Qlik's cloud offerings
- Deploy single and multi-node configurations
- Install Qlik Sense Enterprise on Windows with shared persistence
- Explore the Qlik Management Console (QMC)
- Add and manage users
- Understand Qlik Sense licensing model
- Configure user license access
- Import and manage apps and extensions
- Review and manage app objects
- Create and manage streams
- Create tasks for app reloads and user import
- Understand Qlik Sense Enterprise security
- Manage and audit system security
- Understand data security with section access
- Configure virtual proxies
- Manage data connections
- Explain various methods for load balancing
- Manage multiple schedulers
- Discuss single sign-on concepts
- Monitor and troubleshoot typical system issues

### Course Outline

- Business case
- Server Components
- Single and multi-node architecture
- Qlik Sense install and the QMC
- Import and manage users
- Apps, extensions, objects, streams and tasks
- Proxies & virtual proxies
- Schedulers
- Qlik Sense security
- Data connections and data security
- Load balancing
- Single sign-on concepts
- Qlik's deployed monitor apps (License and Operations)
- Troubleshooting

# Qlik Sense for QlikView Developers

## Description

Qlik Sense for QlikView Developers is designed to enable Qlik Sense skills in those already familiar with QlikView. This technical course teaches the basics of designing and developing Qlik Sense applications, including data modeling and creating visualizations, and gives a complete overview of the product's unique features.

### Class Type and Duration

- Instructor led or Virtual Instructor led\*
- 1 day

### Course Prerequisites

A high level of proficiency with QlikView

### Audience

- QlikView Business Analysts
- QlikView Data Architects

### Skills Learned

- Explain Qlik Sense architecture and components
- Analyze data with smart search
- Explore Qlik Sense best practices
- Design and create Qlik Sense apps
- Create a data model in Qlik Sense
- Leverage visual data profiling to build data associations
- Manipulate the data using the Data Manager
- Use Geo Data within a Qlik Sense app
- Use the Data Load Editor
- Create and maintain data connections
- Create Master items in the library
- Design and create Qlik Sense Visualizations
- Publish and secure apps using Section Access
- Migrate a QV document to a Qlik Sense app
- Big data with Qlik Sense (ODAG) (Reference only)
- Advanced Analytics with Qlik Sense (Reference only)
- Use the Insight Advisor to generate visualizations

### Course Outline

#### Part 1 – Getting started with Qlik Sense

- Qlik Sense deployment architecture
- Working with Qlik Sense

#### Part 2 - Loading data

- Loading data – Data Manager
- Loading data – Data Load Editor

#### Part 3 – Intro to Qlik Sense concepts

- Overview of Qlik Sense concepts
- Build a Qlik Sense app

#### Part 4 - More Qlik Sense Concepts

- Overview of Dashboard and Visualization Extensions
- Sharing your insights
- Publishing and SA security
- QlikView Converter
- Big data with Qlik Sense
- Advanced Analytics with Qlik Sense



# Create Reports with Qlik NPrinting

## Description

The Create Reports with Qlik NPrinting course is intended for business analysts who need to be able to build and distribute static reports based on QlikView or Qlik Sense products. The course will cover: Web Console configuration, generation of reports (QlikView and Qlik Sense), NewsStand environment, report distribution options, and user access management.

### Class Type and Duration

- Instructor led or Virtual Instructor led\*
- 1 day

### Course Prerequisites

Familiar with generic QlikView or Qlik Sense application design

### Audience

- Business Analysts

### Skills Learned

- Explain how Qlik NPrinting fits within the Qlik portfolio.
- Explain the product components and architecture.
- Describe the installation process (to provide context).
- Configure Qlik NPrinting Web Console.
- Create Qlik NPrinting Apps and data connections.
- Develop reports based on single and multiple sources from both QlikView and Qlik Sense.
- Apply filters and conditions to Qlik NPrinting reports.
- Manage recipients and distribute reports in multiple ways.
- Create users and security roles.
- Distribute reports with data reduction based on recipients.

### Course Outline

#### Qlik NPrinting overview

- Introduction to Qlik NPrinting
- Qlik NPrinting process flows

#### Report access and distribution

- Publishing reports
- Security (Optional)

#### Report development

- PowerPoint reports
- Word reports
- Excel reports
- PixelPerfect reports
- HTML reports
- Filters and other reports



# Embed Analytics with Qlik Sense APIs

## Description

This course will provide students with a good understanding of how to integrate and embed data analytics in applications, portals and other products using the Qlik Analytics Platform®.

### Class Type and Duration

- Instructor led or Virtual Instructor led\*
- 2 days

### Course Prerequisites

- Experience working with JavaScript frameworks to build web applications
- Basic understanding and knowledge of Qlik Sense
- Basic understanding of infrastructure

### Audience

Partners or Customers who are looking to embed and integrate Qlik Sense analytical capabilities into their applications, portals, and other business systems.

### Skills Learned

- Identify various authentication capabilities for integration
- Learn how to deploy Qlik Sense integrations in a multi-server setup
- Develop Qlik Sense visualization extensions
- Develop Qlik Sense web application mashups
- Understand how to use the Qlik Dev Hub
- Understand how to create open source projects
- Understand various Qlik capabilities like On Demand App Generation (ODAG) and Qlik data eXchange (QVX)
- Learn what related capabilities exist beyond the scope of this course

### Course Outline

- Qlik Sense overview
- API overview
- Qlik Dev Hub
- Visualizations overview
- Extensions
- Multi Server setups
- Authentication
- Introduction to Windows / .Net applications
- Web approach (aka Mashups)
- On Demand App Generation (ODAG)
- Open Source Projects
- Where to go next



# Advanced Topics in Design and Development

## Description

Are you ready to take your skills to the next level? Advanced Topics in Design and Development is a specialized course that discusses advanced technical concepts including: applying expressions and functions, writing data load script, and data modeling strategies. It provides hands-on examples and demonstrates how these concepts can be applied to various business cases.

### Class Type and Duration

- Instructor led or Virtual Instructor led\*
- 2 days

### Course Prerequisites

- Fundamental knowledge of the Qlik products (QlikView or Qlik Sense) and their related concepts.
- Basic understanding of the Qlik script, Qlik expressions, and functions.
- It is recommended that the students have also attended the business analyst and/or data architect core courses.
- Proficient with building applications, creating dashboards, and performing basic ETL transformations using the data load script.
- At least six months experience working with Qlik as a business analyst or data architect

### Audience

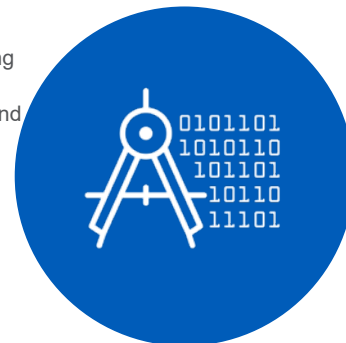
- Business Analysts
- Data Architects

### Skills Learned

- Implement front-end solutions with advanced Qlik expressions and calculations.
- Perform advanced set analysis operations, using advanced search expressions and element functions.
- Perform comparative analysis using alternate states.
- Use advanced Qlik functions and visualizations to perform Pareto (ABC), Basket, and Monte Carlo analyses.
- Explain inter-record functions and manual accumulations..
- Apply clustering and classification techniques to perform sales analysis Use advanced Qlik scripting techniques to resolve data load issues.
- Use loops and nested loops to load and analyze multiple files.
- Apply multiple Load prefixes in various analysis case examples.
- Transform the data model by applying subroutines to allow script reusability.
- Create multiple QVD layers.
- Optimize the data load process by applying incremental loads.
- Explain and apply debug processes.
- Use system error variables for debugging purposes.
- Discuss advanced technical concepts and solutions in real life scenarios.

### Course Outline

- Advanced set analysis
- Comparative analysis
- Advanced calculations
- Advanced transformations in script
- Incremental loads and QVDs
- Debugging and troubleshooting



# Qlik Sense Elective Topic:

## Advanced Calculations and Expressions

### Description

Advanced Calculations and Expressions follows on from the Create Visualizations with Qlik Sense course and covers the effective and expanded usage of variables and expressions with Qlik Sense. Although simple expressions can be made with ease in Qlik Sense without any typing, more complex expressions require some thorough understanding about their structure.

With complex expressions, considerations arise for maintainability and flexibility. Variables allow you to develop complex and easy to maintain expressions. This course enables you to get your questions answered.

#### Class Type and Duration

- Instructor Led Training (ILT)\*, either classroom or virtual
- 1 day

#### Course Prerequisites

Create Visualizations with Qlik Sense

#### Audience

- Business Analysts

#### Support Materials

- Exercise files
- Takeaway documents
- Related Qlik Continuous Classroom Modules

#### Skills Learned

- Utilizing string functions within an expression
- Defining and using variables in expressions
- Creating nested expressions and aggregations
- Using “set” expressions to define data sets
- Creating advanced set expressions
- Understanding performance implications

#### Course Outline

- Introduction to string functions
- Working with variables
- Nested aggregations
- Introduction to set expressions
- Advanced set expressions



# Qlik Sense Elective Topic:

## Qlik GeoAnalytics

### Description

Qlik GeoAnalytics is an advanced suite of location intelligence tools that is made available as an add-on product to Qlik Sense. This course covers how to best utilize Qlik GeoAnalytics, including how to work with location based data, how to leverage the variety of layer types, how to add multiple map layers, and how to perform geospatial operations like aggregate, geometric, lookup, and routing.

This course enables business analysts to leverage Qlik GeoAnalytics with their mapping and location based analytical needs.

#### Class Type and Duration

- Instructor Led Training (ILT)\*, either classroom or virtual
- 1 day

#### Course Prerequisites

Create Visualizations with Qlik Sense

#### Audience

- Business Analysts

#### Support Materials

- Exercise files
- Takeaway documents
- Related Qlik Continuous Classroom Modules

#### Skills Learned

- Understanding of Qlik GeoAnalytics
- Understanding configuration options
- Resolving location errors and data mismatches
- Configuring map layers and applying multiple layers
- Using the Qlik GeoAnalytics connector to configure and process geospatial operations

#### Course Outline

- Introduction to GeoAnalytics
- Creating Map Layers
- Configuring Aggregate Operations
- Resolving Location Errors and Data Mismatches
- Configuring Map Settings



# Qlik Sense Elective Topic:

## Big Data Solutions with Qlik Sense

### Description

Big Data Solutions follows on from the Data Modelling for Qlik Sense course and explores the vision and capabilities of Qlik Sense for handling Big Data. With handling Big Data not only technical aspects are relevant, but also conceptual aspects come into play. While Qlik has various solutions for Big Data, including Direct Discovery, Incremental Load, On-Demand App Generation (ODAG), and using NoSQL data sources, this course will focus on Implementing ODAG. Students will first learn how to organize and extract data for analysis using QVD files, followed by how to develop and apply ODAG solutions, including how to chain documents and how to limit the amount of data being loaded in-memory.

#### Class Type and Duration

- Instructor Led Training (ILT)\*, either classroom or virtual
- 1 day

#### Course Prerequisites

Data Modeling for Qlik Sense

#### Audience

- Data Architects

#### Support Materials

- Exercise files
- Takeaway documents
- Related Qlik Continuous Classroom Modules

#### Skills Learned

- Organizing extracted data for analysis in Qlik Sense using QVD files
- Apply ODAG when developing Qlik Sense Enterprise apps
- Developing ODAG document chains

#### Course Outline

- Working with QVD files
- Introduction to On-Demand App Generation (ODAG)
- Reducing the Amount of Data Loaded with ODAG
- Document Chaining with ODAG



# Qlik Sense Elective Topic:

## Advanced Scripting Capabilities

### Description

Advanced Scripting Capabilities follows on from the Data Modeling with Qlik Sense course. This course covers advanced scripting capabilities including working with dates, solving data classification problems, handling problems associated with loading data from crosstables and generic databases, and learning to propagate values, generate accumulated amounts, and work with simulations. This course also covers creating and loading QVD files and implementing a QVD layer structure for optimal application development and load performance.

#### Class Type and Duration

- Instructor Led Training (ILT)\*, either classroom or virtual
- 1 day

#### Course Prerequisites

Data Modeling for Qlik Sense

#### Audience

- Data Architects

#### Support Materials

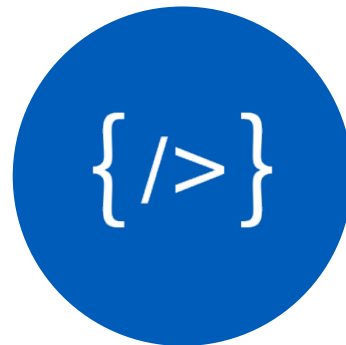
- Exercise files
- Takeaway documents
- Related Qlik Continuous Classroom Modules

#### Skills Learned

- Working with dates
- Solving data classification problems
- Controlling loop iterations and program flow
- Generating values for character and numeric data
- Converting null values
- Creating and loading QVD files

#### Course Outline

- Working with Dates in the Data Load Script
- Classifying Data
- Working with Crosstables and Generic Loads
- Generating Missing Data
- Working with QVD Files



# Qlik Sense Business Analyst Certification

## Description

The Qlik Sense Business Analyst Certification Exam tests your knowledge of creating and delivering Qlik Sense applications. This exam tests your ability to interpret business requirements, prepare the data, design the application user interface, build the user interface and deliver the application. Visit our [website](#) for more information.

### Format

- Comprehensive scenario based questions
- 50 multiple choice questions
- 2 hours

### Audience

- Business Analysts

### Exam Prerequisites

- Experience developing production-quality applications in Qlik Sense
- Experience creating dimensions, measures and objects for the master library
- Visualization and user interface design experience and understanding of design best practices

### Benefits

With Qlik certification, you can benchmark your skills against an established and objective level of competency, as well as confirm your level of expertise. The program also helps to ensure consistency and quality of services and support.



# Qlik Sense Data Architect Certification

## Description

The Qlik Sense Data Architect Certification Exam tests your knowledge of developing and managing data models used to create Qlik Sense visualizations. This exam tests your ability to translate business requirements into technical requirements, to design, create and validate the data model, and build the master library. Visit our [website](#) for more information.

### Format

- Comprehensive scenario based questions
- 50 multiple choice questions
- 2 hours

### Audience

- Data Architects

### Exam Prerequisites

- Experience developing at least two production-quality applications in Qlik Sense
- Ability to write Qlik Sense LOAD scripts and validate data
- Basic understanding of Extract-Transform- Load (ETL)
- Create and use connectors to various data sources
- Understand the QVD layer and architecture of the Qlik platform
- Ability to architect data to provide optimal performance
- Familiar with SQL and relational databases

### Benefits

With Qlik certification, you can benchmark your skills against an established and objective level of competency, as well as confirm your level of expertise. The program also helps to ensure consistency and quality of services and support.

# Qlik Sense System Administrator Certification

## Description

The Qlik Sense System Administrator Certification Exam tests your knowledge of managing a Qlik Sense environment. This exam tests your ability to set up the environment, configure access, configure apps, tasks and the content library, manage the environment, and troubleshoot problems and errors. Visit our [website](#) for more information.

### Format

- Comprehensive scenario based questions
- 50 multiple choice questions
- 2 hours

### Audience

- System Administrators

### Exam Prerequisites

- At least 6 months experience as an administrator of a Microsoft Windows Server-based environment
- Experience working with Qlik Sense sites and the Qlik Management Console, to provide data and application governance, library maintenance, as well as user and application security
- Experience managing the policies and options that run the Qlik Sense servers and apps
- Experience creating rules and managing the visualization streams
- Knowledge of networking and Active Directory configuration, proxies, intermediate web servers, load balancers, etc.
- Familiarity with Windows tools and logs created (e.g., Event Viewer, Services Console, DCOM Console, Windows Registry)
- Experience using NSLookup, Telnet, Ping, NetStat, Fiddler, and other browser tools to troubleshoot connectivity, interoperability, configuration, performance, etc.

### Benefits

With Qlik certification, you can benchmark your skills against an established and objective level of competency, as well as confirm your level of expertise. The program also helps to ensure consistency and quality of services and support.

# Qlik Education

## QlikView Courses and Certifications



# QlikView Course Overview



## Self-paced Learning

Self-paced learning platform featuring video-based modules, exercises and quizzes, and tools to collaborate with instructors and students.



## Instructor-led Training (ILT)

Live instructor-led courses delivered in-person at public classrooms or privately at your facility. Demonstrations and hands-on labs included



## Virtual Instructor-led Training (VILT)

Live instructor-led courses delivered in a virtual training environment. Collaboration with instructor and other students included.

	Core Learning	Elective Learning	Self-Paced Learning
	<p>Fundamental concepts and best practices. Competency in most frequently used job skills. Can lead to certification.</p> <p>ILT and VILT classes are available.</p>	<p>Solutions and best practices for common challenges. Specialized tasks related to job functions.</p> <p>On-demand, ILT, VILT and customized special events are available.</p>	<p>A virtual environment for on-demand videos, online collaboration and expert instruction.</p> <p>Qlik Continuous Classroom courses are available.</p>
<b>Business User</b>	<a href="#"><u>Custom Application Training (bespoke on-demand)</u></a>		
<b>Business Analyst</b>	<a href="#"><u>QlikView Designer</u></a> <a href="#"><u>Create Reports with Qlik NPrinting</u></a>	<a href="#"><u>Advanced Topics in Design and Development</u></a>	<a href="#"><u>Qlik Continuous Classroom for Business Analyst</u></a>
<b>Data Architect</b>	<a href="#"><u>QlikView Designer</u></a> <a href="#"><u>QlikView Developer</u></a>	<a href="#"><u>Advanced Topics in Design and Development</u></a>	<a href="#"><u>Qlik Continuous Classroom for Data Architect</u></a>
<b>System Administrator or Enterprise Architect</b>	<a href="#"><u>QlikView Server Publisher</u></a>		

# QlikView Designer

## Description

Having the knowledge and understanding of the critical concepts and design components needed to create a QlikView document is essential to building effective and powerful QlikView documents. QlikView Designer is a scenario based course that utilizes a business case scenario to lead the participant through the processes and steps needed to build a QlikView document. The course is a combination of lecture/demonstration followed by hands-on activities.

### Class Type and Duration

- Instructor led or Virtual Instructor led\*
- 2 days

### Course Prerequisites

- Basic knowledge of computer concepts
- Knowledge of Key Performance Indicators
- Recommended: [Understanding Data Principles](#)

### Audience

- Business Users
- Business Analysts
- Data Architects

### Skills Learned

- Demonstrate basic knowledge of a QlikView data model in QlikView
- Explain how to best layout and design your QlikView application
- Explain basic use of QlikView sheet objects
- Identify, based on data provided, which chart will provide the best visual representation of data to the user

### Course Outline

- Get Started with QlikView
- The ABC Sales Application
- The data model
- Sheets, filters and navigation
- Foundations of a powerful user interface
- Discovering charts
- Data Model Viewer
- Using WebView
- Advanced features
- Build the app
- Creating reports
- Other spreadsheet objects



# Create Reports with Qlik NPrinting

## Description

The Create Reports with Qlik NPrinting course is intended for business analysts who need to be able to build and distribute static reports based on QlikView or Qlik Sense products. The course will cover: Web Console configuration, generation of reports (QlikView and Qlik Sense), NewsStand environment, report distribution options, and user access management.

### Class Type and Duration

- Instructor led or Virtual Instructor led\*
- 1 day

### Course Prerequisites

Familiar with generic QlikView or Qlik Sense application design

### Audience

- Business Analysts

### Skills Learned

- Explain how Qlik NPrinting fits within the Qlik portfolio.
- Explain the product components and architecture.
- Describe the installation process (to provide context).
- Configure Qlik NPrinting Web Console.
- Create Qlik NPrinting Apps and data connections.
- Develop reports based on single and multiple sources from both QlikView and Qlik Sense.
- Apply filters and conditions to Qlik NPrinting reports.
- Manage recipients and distribute reports in multiple ways.
- Create users and security roles.
- Distribute reports with data reduction based on recipients.

### Course Outline

#### Qlik NPrinting overview

- Introduction to Qlik NPrinting
- Qlik NPrinting process flows

#### Report development

- PowerPoint reports
- Word reports
- Excel reports
- PixelPerfect reports
- HTML reports
- Filters and other reports

#### Report access and distribution

- Publishing reports
- Security (Optional)



# QlikView Developer

## Description

QlikView Developer is a must if you are building QlikView applications. Knowledge of the data model, creation of the proper data connections and scripting fundamentals are critical to creating QlikView applications that provide your organization with powerful business discovery tools. QlikView Developer provides you with an opportunity to learn by doing through a series of lectures and hands-on exercises focused on developing QlikView applications. Beginning with the QlikView environment and covering topics such as data modeling, synthetic keys and how to use the script editor, the Developer course will prepare you to take your QlikView applications to the next level. The course concludes with a business case where you can practice your skills in building a QlikView application from the beginning using identified key performance indicators.

### Class Type and Duration

- Instructor led or Virtual Instructor led\*
- 3 days

### Course Prerequisites

- Recommended: [QlikView Designer](#)
- Recommended: [Understanding Data Principles](#)

### Audience

- Business Analysts
- Data Architects

### Skills Learned

- Create a data model in QlikView
- Build a QlikView application
- Resolve data structure issues
- Access the Debugger
- Define the advanced uses of the script editor
- Use Transformative Functions in the script
- Discuss Synthetic Keys

### Course Outline

- Development & Deployment
- Connect, select and load
- Loading data from the database
- Synthetic keys
- Basic data model and Table Viewer
- Adding text data
- Basic data transformation
- Generating data in QlikView script
- Scripting considerations
- Master calendar
- Mapping tables
- Data model optimization
- Scripting and data model challenges
- Loading budget data
- Advanced calculations in sheet objects
- Metadata
- QlikView data (Qvd) files
- Performance optimization
- QlikView security



# QlikView Server Publisher

## Description

Laying a strong foundation for QlikView is critically important for allowing your organization to better manage, monitor and deploy QlikView business discovery applications to business users. The QlikView Server Publisher course is for System Administrators to develop and sharpen their skills in product installations, deployment methods and security integration with the QlikView platform. The course progresses from a basic, single-server installation to more advanced configurations involving QlikView Server and Publisher, including advanced scalability, connectivity and management of larger, more complex enterprise deployments.

### Class Type and Duration

- Instructor led or Virtual Instructor led\*
- 3 days

### Course Prerequisites

Hands-on experience with server technology

### Audience

- System Administrators
- Consultants responsible for QlikView Server implementations

### Skills Learned

- Understand the architecture and components of QlikView Server and Publisher
- Complete a standard installation and configure QlikView Server and Publisher on a single server
- Add, manage, distribute and secure QlikView applications
- Complete advanced administration tasks using a multiple QlikView Server and Publisher configuration
- Identify the configuration options for the clustering of QlikView Servers
- Identify tools that monitor and manage the QlikView Server Publisher environment
- Back a QlikView site

### Course Outline

- Deployment types and installation
- Server components and architecture
- Managing Licenses
- QlikView server configuration – QMC
- Security
- User and document management
- Sharing QlikView Objects
- QlikView Publisher
- Logging and monitoring and troubleshooting
- Advanced administration
- Multi-Server and distributed deployments
- Backup a QlikView Site





# Advanced Topics in Design and Development

## Description

Are you ready to take your skills to the next level? Advanced Topics in Design and Development is a specialized course that discusses advanced technical concepts including: applying expressions and functions, writing data load script, and data modeling strategies. It provides hands-on examples and demonstrates how these concepts can be applied to various business cases.

### Class Type and Duration

- Instructor led or Virtual Instructor led\*
- 2 days

### Course Prerequisites

- Fundamental knowledge of the Qlik products (QlikView or Qlik Sense) and their related concepts.
- Basic understanding of the Qlik script, Qlik expressions, and functions.
- It is recommended that the students have also attended the business analyst and/or data architect core courses.
- Proficient with building applications, creating dashboards, and performing basic ETL transformations using the data load script.
- At least six months experience working with Qlik as a business analyst or data architect

### Audience

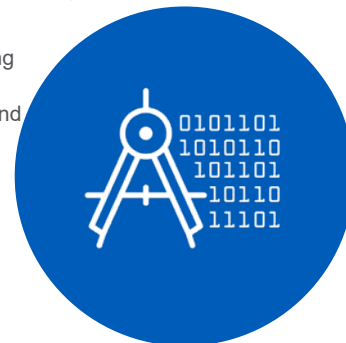
- Business Analysts
- Data Architects

### Skills Learned

- Implement front-end solutions with advanced Qlik expressions and calculations.
- Perform advanced set analysis operations, using advanced search expressions and element functions.
- Perform comparative analysis using alternate states.
- Use advanced Qlik functions and visualizations to perform Pareto (ABC), Basket, and Monte Carlo analyses.
- Explain inter-record functions and manual accumulations..
- Apply clustering and classification techniques to perform sales analysis Use advanced Qlik scripting techniques to resolve data load issues.
- Use loops and nested loops to load and analyze multiple files.
- Apply multiple Load prefixes in various analysis case examples.
- Transform the data model by applying subroutines to allow script reusability.
- Create multiple QVD layers.
- Optimize the data load process by applying incremental loads.
- Explain and apply debug processes.
- Use system error variables for debugging purposes.
- Discuss advanced technical concepts and solutions in real life scenarios.

### Course Outline

- Advanced set analysis
- Comparative analysis
- Advanced calculations
- Advanced transformations in script
- Incremental loads and QVDs
- Debugging and troubleshooting



# QlikView Business Analyst Certification

## Description

The QlikView Business Analyst Certification Exam focuses on the user interface design of QlikView applications. The certification is suggested for all roles involved in the approach, design and layout of the QlikView application user interface. This exam gauges your ability to gather and interpret requirements, identify and analyze data sources and design and develop the application user interface. Visit our [website](#) for more information.

### Format

- Comprehensive scenario based questions
- 50 multiple choice questions
- 2 hours

### Audience

- Business Analysts

### Exam Prerequisites

- Basic knowledge of Business Intelligence, reporting, data analysis
- Experience working with QlikView to design applications
- Visualization and user interface design experience

### Benefits

With Qlik certification, you can benchmark your skills against an established and objective level of competency, as well as confirm your level of expertise. The program also helps to ensure consistency and quality of services and support.

# QlikView Data Architect Certification

## Description

The QlikView Data Architect Certification Exam tests the technical skills necessary to develop (design and script) and deploy QlikView applications. The exam focuses on the technical aspects of developing a QlikView application and is suggested for those in technical roles such as sales engineering, support and implementation. This exam measures your ability to gather and interpret requirements, identify and analyze data sources, create the associative data model, design and develop the application user interface and deliver the QlikView application. Visit our [website](#) for more information. **NOTE: Passing the QlikView Data Architect exam grants you both the Data Architect and Business Analyst certifications.**

### Format

- Comprehensive scenario based questions
- 60 multiple choice questions
- 2 hours

### Audience

- Business Analysts
- Data Architects

### Exam Prerequisites

- Exam Prerequisites
- Advanced knowledge of Business Intelligence, reporting, and/or data analysis
- Knowledge of SQL and/or other scripting languages, data modeling, data visualization and advanced QlikView functions
- Practical experience working with QlikView to design and develop applications
- User interface design experience

### Benefits

With Qlik certification, you can benchmark your skills against an established and objective level of competency, as well as confirm your level of expertise. The program also helps to ensure consistency and quality of services and support.

# QlikView System Administrator Certification

## Description

The QlikView System Administrator Certification Exam confirms you have the appropriate technical infrastructure knowledge, perform administrative tasks, troubleshoot problems and errors, and the skills and experience to support QlikView deployments. It also verifies that you understand the best approaches to set up and run QlikView Server and Publisher installations in complex IT environments. The certification is suggested for IT system administration professionals. Visit our [website](#) for more information.

### Format

- Comprehensive scenario based questions
- 60 multiple choice questions
- 2 hours

### Audience

- System Administrators

### Exam Prerequisites

- Experience working with QlikView Server and Publisher
- Knowledge and experience with Microsoft Windows Server based environments, Windows Firewall, Windows IIS and IIS Management Console
- Experience with tools to troubleshoot connectivity, interoperability, configuration and performance, such as nslookup, telnet, ping, netstat, etc.
- Basic SQL and ODBC/OLEDB connections
- Windows Services Applet
- Knowledge of basic NTFS rights and Windows Network fileshare setup

### Benefits

With Qlik certification, you can benchmark your skills against an established and objective level of competency, as well as confirm your level of expertise. The program also helps to ensure consistency and quality of services and support.

Qlik Education

# Data Literacy and Analytics



# Data Literacy Program:

Today, data literacy is as important as reading or writing. But the world is facing a major skills gap. That's why we're on a mission to help people and organizations understand, analyze, and use data with confidence.

In our information-driven world, every individual needs to know how to transform data into actionable insights fast. And we mean every individual—students, entry-level employees, managers, C-level executives, and everyone in-between. Our goal is to give you the tools, learning, and strategies you need to achieve data literacy for all.

## Learn the new language of business

The program delivers the following benefits for individuals and organizations:

### Data literacy for everyone

Regardless of your role, skill level, or the BI tools you use, this program has something to offer—from data skill building to fostering a culture of data literacy in your organization.

### Make confident data-informed decisions

Improve your decision-making skills by learning to ask the right questions from your data, interpret your findings, and take informed action.

### Gain an edge in the era of data

Data literacy is a critical skill to develop a more effective workforce while also helping students become more attractive job candidates.



## What is Data Literacy?

The ability to read, work with, analyze and communicate with data

### Learning options

Choose from a full range of educational options to improve your data literacy and even become certified. Our program isn't focused on specific analytics products—it's built around widely adopted analytics and statistical concepts you can use in any context. Consulting services also available.



Assessment



Instructor-Led  
Learning



Self-Paced  
Learning



Certification



Academic  
Program

# Data Literacy Program:

## Creating a Data Literate Organization

### Description

Creating a Data Literate Organization is an introductory, instructor-led course designed to provide attendees with a strong understanding of the principles, culture, and skills needed to create a data literate organization. To register please contact your [local training manager](#).

#### Class Type and Duration

- Instructor Led Training (ILT)\*, classroom (private location) or virtual
- 1 day

#### Course Prerequisites

Desire to learn and build key skills in data literacy, data and analytical culture, and decision making with data

#### Audience

Anyone who uses to data to help make decisions in an organization.

#### Skills Learned

- Understand the key characteristics of data and analytical strategies
- Apply data literacy to organizations
- Apply data literacy to one's own personal career
- Tie data and analytics to business goals and objectives
- Help an organization evolve its culture to succeed with data
- Grow trust within data and analytics
- Ask good questions of data to gain insight from data
- Overcome cognitive bias
- Construct sound business and analytical questions
- Drive curiosity within an organization
- Begin the process of building and utilizing data storytelling
- Create a culture of data literacy
- Utilize the four levels of analytics properly from a beginning perspective

#### Course Outline

##### *Part 1 – Data Literacy Overview*

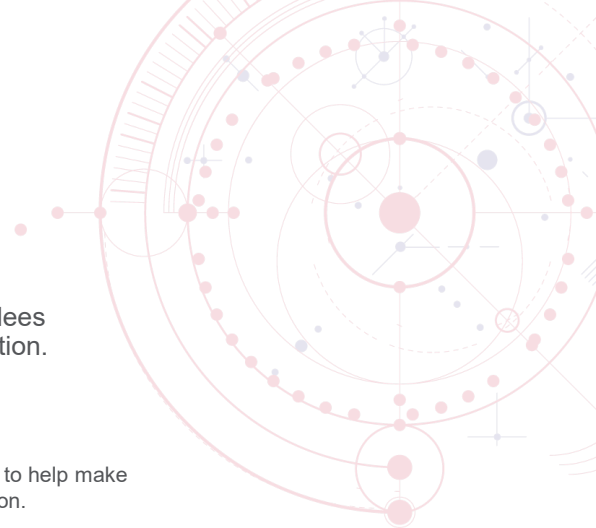
- Current state of data in the world
- Data structure and trust within organizations
- Democratization of data
- Data and analytical strategy
- The four levels of analytics and associated roles in data and analytical strategy
- State of data literacy in the world
- Defining and learning data literacy and its characteristics

##### *Part 2 – Data Literacy Culture*

- Value of data literacy to organizations
- Role of leadership in data and analytics
- Key characteristics of a data literate culture
- Role of the Chief Data Officer

##### *Part 3 – Data-Informed Decision Making*

- Data-informed, decision-making framework
- Six-phase approach to making decisions with data
- Learning to ask good questions of data
- Applying mental models to decision making



# Data Literacy Program:

## Data Literacy Certification

### Description

The Data Literacy Certification Exam is a product-agnostic exam which measures your ability to interpret business requirements; understand and transform data; design, build, and interpret visualizations; and analyze, act on, and share results. To take the free exam, visit [this page](#) in the Qlik Continuous Classroom (login with Qlik Account).

#### Format

- Comprehensive scenario based questions
- 70 questions
- 2.5 hours

#### Audience

Anyone who works with data and wishes to measure their data literacy skills

#### Exam Prerequisites

##### **Qlik Continuous Classroom:**

- All courses in the Overview of Data Literacy section
- All courses in the Data Fundamentals section
- All courses in the Data-Informed Decision Making section
- Under the Foundational Analytics section, the Understanding Signal and Noise and Correlation vs Causation courses

##### **Books:**

- The Functional Art by Alberto Cairo
- Data Visualization by Any Kirk

#### Benefits

Validate your skills to read, work with, analyze, and argue with data





# Analytics:

## Understanding Data Principles

### Description

Understanding Data Principles is an introductory, instructor-led course focusing on beginning concepts in statistics and analytics, and their importance in the world today. This course provides learners an opportunity to explore various preliminary topics concerning why statistics and analytics are important in today's data environment, allowing students to develop a foundation for strong analytical knowledge. In addition, this course will help organizations become more data literate, allowing them to differentiate themselves from their competition. To register please contact your [local training manager](#).

#### Class Type and Duration

- Instructor Led Training (ILT)\*, classroom (private location) or virtual
- 1 day

#### Course Prerequisites

None

#### Audience

Anyone beginning in analytics and statistics, and for those already trained in these fields looking for a refresh.

#### Skills Learned

- Increased knowledge of Data Literacy
- Increased knowledge regarding data and aggregations
- Understanding of the analytical mind-set
- Foundational thoughts of analytics: signal and noise, probability, and inference
- Purpose of distribution analysis, the standard deviation
- Stronger understanding of sampling and bias, including a look into polling
- Dive into hypothesis testing and false positive and false negatives errors
- A look into correlation and causation, including regression analysis

#### Course Outline

- Data Literacy
- Data and aggregations
- Analytical mindset
- Signal and noise, probability, statistical inference
- Distributions and standard deviation
- Sampling and bias
- A/B testing and Type I and II errors
- Correlation vs causation
- Scatter plot analysis
- Regression analysis



# Analytics:

## Data Analytics Certification

### Description

The Data Analytics Certification Exam tests your analytic and statistics knowledge, from the basic to the advanced level. The exam is product-agnostic and covers four categories of analytics: Data Foundations, Foundational Analytics, Interpretation of Analytics, and Advanced Analytics. To take the exam, visit [this page](#) in the Qlik Continuous Classroom.

### Format

- Comprehensive scenario based questions
- 70 questions
- 2 hours

### Audience

Recommended for Data Analysts and Data Scientists

### Exam Prerequisites

#### *Qlik Continuous Classroom:*

- All courses in the Overview of Data Literacy section
- All courses in the Data Fundamentals section
- All courses in the Foundational Analysis section
- All courses in the Data-Informed Decision Making section
- All courses in the Advanced Analytics section

Since there are many topics covered in this comprehensive exam, additional resources are recommended, for example the podcast, Data Skeptic.

### Benefits

Validate your technical ability within the world of data, analytics, data science, and data literacy. The exam covers technical aspects of statistics and analytics, including the ability to use data visualizations appropriately.



# Qlik Education

## Qlik Data Integration



# Qlik Replicate Training

## Description

Instructor-led comprehensive introduction to the Qlik Replicate product, implementation considerations, as well as ongoing operational know-how. This includes an overview of the product GUI, prerequisites for installation, configuring tasks, applying transformations, setting up notifications, using APIs, and monitoring the environment. The training includes theory as well as hands-on lab work to ensure attendees have a well-rounded exposure to the product and its capabilities. [Contact us](#) for scheduling and pricing.

## Class Type and Duration

- Instructor led or Virtual Instructor led
- 2 days

## Audience

- Database Administrators
- System Administrators
- Data Analysts
- Business Analysts

## Course Outline

- Platform Overview
- Replicate Introduction, Capabilities, and Features
- Database Requirements (clients)
- Replicate Installation (Hands-on)
- Replicate Console
- Source & Target Endpoints (Hands-on)
- Replicate Tasks – Hands-on, Special emphasis on customer-specific endpoints
- Transformations – Hands-on, based on current customer use cases
- Troubleshooting – Hands-on with detailed steps on what to look for and where
- Setting up Notifications
- Replicate and SQLite
- Replicate Command Line tools – For environment migration, scheduled outages, etc.



# Qlik Compose for Data Warehouses Training

## Description

Instructor-led workshop to introduce the Qlik Compose product and its capabilities. This includes installation prerequisites, connection and authorization setup, reviewing the data model, defining mappings and any transformation needed. Also includes operational topics such as scheduling and monitoring. A brief overview of data warehousing concepts, and lab work for use case development is also part of the training. [Contact us](#) for scheduling and pricing.

## Class Type and Duration

- Instructor led or Virtual Instructor led
- 2 days

## Audience

- ETL Developers
- Data Analysts
- Business Analysts
- Database Administrators

## Course Outline

- Data Warehousing Review
- Compose Overview
- Replicate Integration
- Compose Project Setup
- Data Warehouse Model
- Date Warehouse Creation
- Manage ETL mappings
- ETL Generation and Execution
- Data Mart Design
- Project Documentation
- Workflows and Real-time processing
- Augmenting the Data Warehouse
- Aggregated Star Schema
- Custom Entities and ETL mappings
- Advanced Features
- Collaboration in Compose
- Error Handling and troubleshooting
- Date Warehouse ETL - Deep dive
- Data Mart ETL - Deep dive



# Qlik Compose for Data Lakes Training

## Description

Instructor-led comprehensive introduction to the Qlik Replicate product, implementation considerations, as well as ongoing operational know-how. This includes an overview of the product GUI, prerequisites for installation, configuring tasks, applying transformations, setting up notifications, using APIs, and monitoring the environment. The training includes theory as well as hands-on lab work to ensure attendees have a well-rounded exposure to the product and its capabilities. [Contact us](#) for scheduling and pricing.

## Class Type and Duration

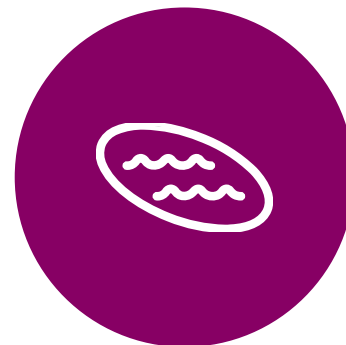
- Instructor led or Virtual Instructor led\*
- 2 days

## Audience

- Big-Data Analysts
- ETL Developers
- Business Analysts
- Database Administrators

## Course Outline

- Compose for Data Lakes Introduction
- EMR/HDI/DataProc Introduction
- Compose Architecture
- Replicate Integration
- Metadata
- Storage Zone
- Provisioning Zones
- Schema Evolution
- Transformations
- Spark vs. Hive projects
- Security
- DevOps
- Troubleshooting



# Qlik Catalog Training (formerly Qlik Data Catalyst)

## Description

Instructor-led workshop to introduce the Qlik Catalog (formerly Qlik Data Catalyst) product and its capabilities. This includes installation prerequisites, connection and authorization setup. Also includes operational topics. [Contact us](#) for scheduling and pricing.

## Class Type and Duration

- Instructor led or Virtual Instructor led\*
- 2 days

## Audience

- Project Sponsor
- Project Manager
- End Users
- Project Manager
- System / Application Architect
- Administrator / Support Team

## Course Outline

- Qlik Catalog Console
- Source Connection configuration (Hands-on)
- Source configuration (Hands-on)
- Catalog building (Hands-on)
- Technical metadata discover (Hands-on)
- Transformations in Prepare (Hands-on)
- Dataset publish (Hands-on)
- User & Group security
- Application administrations
- Support and Best Practices
- Technical Architecture Overview
- Application structure (Hands-on)
- Data storage structure (Hands-on)
- Configuration & Log files (Hands-on)
- Troubleshooting (Hands-on)
- Log rotations and backups
- APIs and automations



Qlik Education

# Programs





# Qlik Skills Assessment

## Description

Don't know where to start with your training? The Qlik Skills Assessment is a complimentary resource for all users that helps you quickly and easily evaluate your ability to design, develop, or administer Qlik applications. Upon completing the free assessment, you'll receive an email with a personalized recommendation for the training courses that will help you expand your skills. Test your skills today!

### Benefits

- Understand where you are on your Qlik learning journey for free
- Determine which Qlik training class to begin with, based on your current skills
- Measure the skill level of your team and determine where there are gaps
- Take the assessment multiple times
- Measure progress before and after training

### Features

- Available for QlikView, Qlik Sense, Data Literacy and Data Analytics
- Select the role that best fits what you do: Business Analyst, Data Architect and System Administrator (QlikView and Qlik Sense only)
- Designer, Developer or System Administrator for QlikView
- Take the test at [qlik.com/skills-assessment](https://qlik.com/skills-assessment)
- Receive custom training plan with recommended courses to help you further develop your Qlik skills
- Team assessment also available (contact your local training manager to schedule)



# Custom Application Training

## Description

Custom Application Training is designed specifically for business users and delivers everything you need to ensure they are ready to start using Qlik as quickly and effectively as possible. With custom training designed for your Qlik applications, your organization increases application adoption and the overall value of your investment in Qlik. For more details on the program, please visit our Custom Application Training [page](#). For questions [contact](#) your local Education Representative.

### Benefits

- Empower your users by providing them with the skills and motivation they need
- Increase user adoption and ROI for your application
- Leverage expert training resources to make your application highly relevant to your users

### Features

- Learning consultant and instructional designer work with you throughout the engagement, from training design through rollout
- Customized training videos and reference materials designed specifically for your Qlik application
- Launch kit including best practices guide and communication templates for launching your training program



# Qlik Academic Program

## Description

The bar is rising when it comes to success. Students preparing for careers in today's challenging, global, data-driven environment need to know more. They're required to have exceptionally strong analytical and data literacy skills, plus the right tools to keep pace with rapid change and faster decision making. Our Qlik Academic Program meets personal and professional needs, giving students and professors must-have resources to succeed. Both take advantage of the most up-to-date data analytics curriculum, education, training, and platform. Our program extends to qualified university professors, students, and researchers interested in discovery and generating insights using free Qlik software and resources to become the next generation of experts leading with data. To apply for the program visit our Academic Program [website](#). For questions please contact [academicprogram@qlik.com](mailto:academicprogram@qlik.com).

### Benefits

- We help **students** advance their analytical and data literacy skills within every academic discipline.
- We help **professors** deliver a richer learning experience by providing complimentary, powerful tools and resources.
- We help **universities** improve the value of their programs and stay competitive in a fast-paced, data-driven environment.

### Features

#### Joining the program grants access to the following for free:

- Qlik software valid for one year (Qlik Sense Desktop and Qlik Sense Cloud)
- Access to the Qlik Continuous Classroom online learning platform
- Earn a Qlik Sense Qualification by applying your skills and testing your knowledge. Receive a printable certificate and a digital badge.
- Data Analytics curriculum featuring lecture notes, on-demand videos, handouts, activities and a real-world, interactive business use case
- Access to Qlik Community Academic Program Space, a forum for professors and students to access resources, collaborate with others and share experiences
- Customer support

### Program Qualifications

**The Qlik® Academic Program is open to any accredited university-level institution worldwide. Participation will be considered for:**

- Professors and students using Qlik for academic purposes within a qualified academic institution.
- Researchers using Qlik for academic research, involving students associated with a qualified academic institution. The research may not be funded by grant money, nor can it be used for profit. Participants may not share their software with anyone outside of the research assignment, including the university administration.



## Contact

To learn more about our education offerings or to register for a course, go to [qlik.com/training](https://qlik.com/training).

Please [contact](#) your local training manager for additional information.