

# Qlik | Education

We enable you to make data driven decisions



## Qlik® Education provides a wide array of course content and delivery options for different user roles and product applications

Our expertly designed coursework, tools, and programs create a learning environment which gives your organization the knowledge and skills needed to adopt Qlik applications. By partnering with Qlik Education, you can rapidly develop and deploy meaningful apps which put the power of visual analytics in the hands of your business users.

### **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 training that is relevant, timely, and meaningful. 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. In addition to courses taught in our classrooms worldwide, we offer live interactive virtual classroom courses, on-demand training, and private classes at your own site. We also now offer a brand new and innovative self-service online learning platform, Qlik Continuous Classroom.

### 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 visual analytics by providing environments which remove common learning barriers and provide users with a structured path to build knowledge about Qlik applications.

## Qlik Education in Figures

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**48**

countries where we  
deliver public and  
private training



**242**

global cities where we  
deliver public and  
private training



**11**

languages taught



**16,309**

skills assessments  
were taken in 2015



**2,656**

certifications  
were earned  
in 2015

## 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

#### Classroom training:

This delivery method is a traditional, in-person classroom computer training approach, delivered privately at your facility or publicly in our Qlik training locations globally. An instructor leads a group of students through demonstrations and hands-on exercises.

#### Virtual training:

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.

#### Private on-site training:

Private training, similar to classroom training, is a perfect option when you have a number of employees who need the same training and can train together at your location, with optional virtual participation for added flexibility.



### Continuous Learning

This delivery method is a subscription-based, self-service online learning platform providing a completely customizable experience where you choose what, how and when you want to learn. Features include video-based modules, exercises and quizzes, and collaboration tools to interact with students and instructors.



### On-Demand

This delivery method includes self-directed videos or documentation that provides baseline knowledge and how-to instructions. We also offer a variety of free on-demand videos which can be found within our course pathways on our website.



# Qlik Continuous Classroom

Qlik Continuous Classroom is our new, self-service learning platform for Qlik Sense®. As the way we consume information becomes more sophisticated, we no longer expect to learn the way we used to – only through an individual event like a class, or a webinar. For your learning journey to be truly effective today, you will want to follow a continuous learning process to supplement these events. And you will expect that process to be supported by the latest tools and technology available. Qlik Continuous Classroom uses that new and innovative approach to help you maximize your Qlik Sense skills.

## A new and innovative way to learn

### Choose **what** you want to learn:

- Based on your user role and skill level
- Regularly updated library
- Pre-defined paths available



### Choose **how** you want to learn:

- Based on your preferred learning style
- Includes videos, exercises and forums
- Live support from educators



### Choose **when** you want to learn:

- Based on your schedule
- Always accessible
- Start, stop, resume and go back



## Audience

- Business Analyst
- Data Architect
- Additional roles coming soon

## Access

- One-year paid subscription
- Free courses included
- Corporate subscriptions available

## Get Started

- Visit [qcc.qlik.com](https://qcc.qlik.com)

## 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.”

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“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.”

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“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 three main sections:



**Qlik**  | Education

# Qlik Sense® Courses & Certifications



# Qlik Sense® Course Overview



### Continuous Learning

Self-service online 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.

	Getting Started	Core	Master
	Key concepts and first steps to learn the basics of Qlik products. All courses are free. on-demand videos	Fundamental concepts and best practices. Competency in most frequently used job skills. Can lead to certification. ILT and VILT	Solutions and best practices for common challenges. Specialized tasks related to job functions. Can lead to certification. ILT, VILT, Certification and customized special programs
<b>Business User</b>	Qlik Community Videos	Create Visualizations with Qlik Sense	Custom Application Training (bespoke on-demand videos)
<b>Business Analyst</b>	Qlik Community Videos	Create Visualizations with Qlik Sense Create Mashups with Qlik Sense	Qlik Sense Business Analyst Certification
	Qlik Continuous Classroom		
<b>Data Architect</b>	Qlik Community Videos	Data Modeling for Qlik Sense	Qlik Sense Data Architect Certification
	Qlik Continuous Classroom		
<b>System Administrator</b>	Qlik Community Videos	Administer and Maintain Qlik Sense	Qlik Sense Administrator Certification
<b>Enterprise Architect</b>	Qlik Community Videos	Qlik Sense Server Architecture	

# Create Visualizations with Qlik Sense

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## 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 selecting the appropriate one for your data and the type of questions you need to answer. This course provides you with the opportunity to build Qlik Sense visualizations, create guided story-telling.

## Class Type and Duration

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

## Course Prerequisites

- Building an app tutorial (found under Tutorials in the online help of Qlik Sense Desktop)

## Audience

- Business Users
- Business Analysts
- Data Architects and QlikView developers who want to know more about the self-service capabilities of Qlik Sense

## Skills Learned

- Perform advanced analysis in Qlik Sense
- Identify data types and explain how they are interpreted as visualizations
- Design and create Qlik Sense 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 story-telling
- Explain how Qlik Sense's responsive design enables developing multi-screen design
- Share apps on cloud with others

## Course Outline

- Key concepts of Qlik Sense
- Visualization concepts
- Discovering visualizations
- The ABC Sales app
- Discovering more visualizations
- Enhancing your apps
- Sharing your insights
- Wrapping up and next steps

\*Availability varies by region

# Data Modeling for Qlik Sense

## Description

Data Modeling for Qlik Sense is a technical course for you to become knowledgeable in loading and transforming data within Qlik Sense, as well as building an optimized data model structure. With information, tools, techniques, and exercises, this course includes topics dealing with: data connections, cleansing, manipulating and transforming, resolving data model issues, optimization, using QVD files and developing with server.

**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

Creation of Qlik Sense visualizations  
Database and SQL query knowledge

## Audience

Data Architects

## Skills Learned

- Create a data model in Qlik Sense
- Create and maintain data connections
- Resolve data structure issues and script errors
- Transform data
- Discuss synthetic keys and circular reference
- Leverage external data services
- Define the advanced uses of the data load editor
- Add dimensions and measures to the library
- Add simple visualizations

## Course Outline

- Data connections
- Structuring the script
- Loading data
- Resolving data issues
- Generating data with the script
- Debugging a data load
- Data manager and Qlik DataMarket
- Scripting and data model challenges
- Advanced calculations
- Working with server
- Security
- Mobile deployment

\*Availability varies by region

# Administer and Maintain Qlik Sense

## Description

Administer and Maintain Qlik Sense is a technical course that gives you the information, tools, techniques, and skills necessary to set up, configure, administer, and manage a Qlik Sense Enterprise platform. 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
- Enterprise Architects

## Skills Learned

- Install a single Qlik Sense Enterprise server node
- Explore the QMC
- Add and manage users
- Add and manage apps, objects, streams and tasks
- Understand Qlik Sense Enterprise security
- Manage and audit system security
- Understand data security with section access
- Configure user license tokens
- Add and manage data connections
- Add and manage content libraries
- Add and manage extensions
- Monitor and troubleshoot typical system issues

## Course Outline

- Business case
- Qlik Sense install and the QMC
- Add and manage users
- Apps, objects, streams and tasks
- Qlik Sense security
- Data connections and data security
- Content libraries and extensions
- Monitor and troubleshoot

\*Availability varies by region

# Create Mashups with Qlik Sense

## Description

This introductory developer course provides the foundational skills required to create web page mashups using Qlik Sense Workbench.

## Class Type and Duration

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

## Course Prerequisites

- Familiar with Qlik Sense architecture
- Comfortable using common web scripting languages to create conditional operations, loops and variables

## Audience

- Business Analysts

## Skills Learned

- Explain what a mashup is
- Create a Qlik Sense mashups
- Recognize supporting technologies upon which mashups are built
- Manipulate supporting code layers for mashups
- Identify how to learn more about supporting technologies
- Share insights with Qlik Sense guided stories
- Discuss security and licensing implications

## Course Outline

- What is a mashup
- Qlik Sense Workbench information
- Foundation technologies
- Creating first mashup
- World Business Atlas
- Deconstruction of World Business Atlas
- Deploying mashups
- Security implications
- License issues



\*Availability varies by region

# Qlik Sense Server Architecture

## Description

This course provides Enterprise Architects with techniques to advance their skills in Qlik Sense server components, architecture configurations, managing services, load balancing, and single sign-on methods.

## Class Type and Duration

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

## Course Prerequisites

- Understand fundamentals of IT business systems and server architecture
- Familiar with the Qlik Community “New to Qlik Sense Server” videos
- Knowledge of administering Qlik Sense is advantageous

## Audience

Enterprise Architects

## Skills Learned

- Explain the components of Qlik Sense
- Navigate the Qlik Sense Deployment Console
- Deploy single and multi-node configurations
- Configure multiple and virtual proxies
- Manage multiple schedulers
- Discuss different environment uses
- Create sync rules with Qlik Sense
- Explain various methods for load balancing
- Discuss single sign-on concepts

## Course Outline

- Server Components
- Single and multi-node architecture
- Proxies & virtual proxies
- Schedulers
- Creating sync rules & load balancing
- Single sign-on concepts



\*Availability varies by region

# Qlik Sense for QlikView Developers

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## 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 Qlik Sense visualizations and data modeling.

## Class Type and Duration

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

## Course Prerequisites

A high level of proficiency with QlikView

## Audience

- Qlik Partners
- Qlik Consultants

## Skills Learned

- Perform advanced analysis in Qlik Sense
- Create Master items in the library
- Design and create Qlik Sense apps
- Explore Qlik Sense best practices
- Explain how Qlik Sense's responsive design enables multi-device compatibility
- Create a data model in Qlik Sense
- Use the data load editor
- Create and maintain data connections
- Design and create Visualizations
- Explain Qlik Sense architecture and components
- Create Streams and publish apps
- Secure data using Section Access
- Attach your own data to a Qlik Sense Enterprise app
- Add data from external sources with Qlik DataMarket
- Leverage visual data profiling to build data associations
- Analyze data with smart search

## Course Outline

- QlikView vs. Qlik Sense
- Qlik Sense Architecture
- Creating a Qlik Sense App
- Data Load Editor and Managing Sections
- Data Connection, Select, and Load
- Loading Data and Debugging
- Data Model Viewer
- Key Concepts of Qlik Sense
- Exploring the Qlik Sense App
- Build the app
- Sharing your insights
- Publishing and Security

\*Availability varies by region



# Qlik Sense Business Analyst Certification

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## 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. To take the exam, register at [Pearson VUE Test Centers](#) globally.

## Format

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

## Language

- English

## Audience

- Business Analyst

## 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. To achieve certification, you must pass an exam based on skills and knowledge related to a certain role and its tasks.

Exam duration and number of questions is subject to change for new exam versions.  
For the latest information about available languages, log into [pearsonvue.com/qlik](https://pearsonvue.com/qlik).



# 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. To take the exam, register at [Pearson VUE Test Centers](#) globally.

## Format

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

## Language

- English
- Japanese
- Chinese

## Audience

- Qlik Sense 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. To achieve certification, you must pass an exam based on skills and knowledge related to a certain role and its tasks.



Exam duration and number of questions is subject to change for new exam versions. For the latest information about available languages, log into [pearsonvue.com/qlik](https://pearsonvue.com/qlik).

# 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. To take the exam, register at [Pearson VUE Test Centers](#) globally.

## Format

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

## Language

- English
- Japanese
- Chinese

## Audience

- Qlik Sense 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. To achieve certification, you must pass an exam based on skills and knowledge related to a certain role and its tasks.



Exam duration and number of questions is subject to change for new exam versions. For the latest information about available languages, log into [pearsonvue.com/qlik](https://pearsonvue.com/qlik).

**Qlik**  | Education

# QlikView® Courses & Certifications



# QlikView® Course Overview



### on-demand (OD)

Self-directed video or documentation that provides baseline knowledge and how-to instructions.



### 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.

	Getting Started	Core	Master
	<p>Key concepts and first steps to learn the basics of Qlik products.</p> <p>All courses are free.</p> <hr/> <p>on-demand (OD)</p>	<p>Fundamental concepts and best practices. Competency in most frequently used job skills.</p> <p>Can lead to certification.</p> <hr/> <p>ILT and VILT</p>	<p>Solutions and best practices for common challenges. Specialized tasks related to job functions.</p> <p>Can lead to certification.</p> <hr/> <p>OD, ILT, VILT, Certification and customized special events</p>
<b>Business User</b>	<p>How Does QlikView Work?</p>	<p>Reporting with QlikView NPrinting</p> <hr/> <p>QlikView for the Business User eLearning</p>	<p>Qlik Custom Application Training (bespoke OD)</p>
<b>Business Analyst</b>	<p>What's New in QlikView 11?</p> <hr/> <p>Build your first QlikView</p>	<p>QlikView Designer</p> <hr/> <p>Data Visualization and Design Best Practices Using QlikView</p> <hr/> <p>Reporting with QlikView NPrinting</p>	<p>Advanced Topics in Design and Development</p> <hr/> <p>QlikView Designer Certification</p>
<b>Data Architect</b>	<p>What's New in QlikView 11?</p> <hr/> <p>Build your first QlikView</p> <hr/> <p>QlikView in the Enterprise</p>	<p>QlikView Designer</p> <hr/> <p>QlikView Developer</p>	<p>QlikView Technical Library</p> <hr/> <p>Advanced Topics in Design and Development</p> <hr/> <p>QlikView Developer Certification</p>
<b>Enterprise Architect</b>	<p>What's New in QlikView 11?</p> <hr/> <p>QlikView in the Enterprise</p> <hr/> <p>System Management Overview</p>	<p>QlikView Server Publisher</p>	<p>QlikView Technical Library</p> <hr/> <p>QlikView Performance and Scalability</p> <hr/> <p>QlikView System Administrator Certification</p>

# 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

## 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



\*Availability varies by region

# Data Visualization and Design Best Practices Using QlikView

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## Description

We live in an age of information. Thousands of terabytes are created daily. Data Visualization and Design Best Practices Using QlikView introduces you to the topic of visualization: the practice of creating images that make sense of all that data and enable insight. Using a database provided with the course, you will use the principles of visualization, information design and user-centered design to produce an end product that incorporates all of those concepts and theories. In this course, you will combine your visualization and QlikView skills together to get the most out of this experience. This is a must-have course for those who design QlikView applications and are looking for the best approaches and techniques to organizing data.

## Class Type and Duration

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

## Course Prerequisites

QlikView Designer Course - Required

## Audience

- Business Analysts
- Data Architects

## Skills Learned

- Identify aspects of visualization design
- Develop user-centered workflows
- Organize and structure information
- Create QlikView applications by applying aspects of good visualization design
- Identify the best approaches to the design of QlikView applications

## Course Outline

- Visualization design
- User-Centered workflows
- Organizing information
- Data presentation
- Color and contrast
- Putting it together in QlikView
- Enhancing charts
- Working with color and typography



\*Availability varies by region

# Reporting with QlikView® NPrinting

## Description

The Reporting with QlikView NPrinting course is based on QlikView NPrinting v17. This course is intended for business users and business analysts who need to be able to build and distribute static reports from QlikView. The course will cover the generation of reports based on multiple QlikView applications, options for distribution to users and groups, and scheduling options.

NOTE: This course is only suitable for those wishing to learn specifically about the features of QlikView NPrinting v17. This course is not compatible with earlier versions of QlikView NPrinting.

## Class Type and Duration

- Instructor led or Virtual Instructor led
- 1 day

## Course Prerequisites

- Familiar with generic QlikView application design
- QlikCommunity: <https://community.qlik.com/community/qlikview/new-to-qlikview>

## Audience

- Business Users
- Business Analysts
- Qlik Partners
- QlikView Consultants

## Skills Learned

- Perform a single node NPrinting installation
- Create reports in QlikView NPrinting in multiple Microsoft Office, HTML and pixel perfect formats
- Create reports based on multiple sources
- Link users to reports
- Set up report and distribution tasks
- How to subscribe to reports

## Course Outline

- Introduction
- Brief overview of components and architecture
- Installation of the NPrinting components
- Licenses
- Getting started, the process flow
- Setting up data connections
- Recipient management
- Develop reports
- Security of reports
- Deploy reports
- Troubleshooting

# 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

## 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 Prerequisites

Designer Course - Required

## 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

## Audience

- Business Analysts
- Data Architects



\*Availability varies by region

# 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
- System Management Overview eLearning course

## 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

## Course Outline

- Deployment types and installation
- Server components and architecture
- Licenses
- QlikView server configuration – QMC
- Security
- User and document management
- Social business discovery
- Logging and monitoring
- Advanced administration
- Multi-Server and distributed deployments
- Troubleshooting

\*Availability varies by region



# QlikView Advanced Topics in Design and Development

## Description

Are you ready to take your skills to the next level? QlikView Advanced Topics in Design and Development is a specialized course for experienced QlikView Business Analysts and Data Architects. To benefit from this course you should have at least six months of QlikView application development experience. The course takes you through a combination of demonstrations and exercises to master Set Analysis, other advanced expressions, data modeling, performance and design concepts, incremental data loads, and Direct Discovery.

## Class Type and Duration

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

## Course Prerequisites

- Completed QlikView Designer and Developer courses
- At least 6 months of advanced design and development experience

## Audience

- Business Analysts
- Data Architects

## Skills Learned

- Identify the advantages and use cases for advanced Set Analysis
- Use the appropriate functions in Set Analysis expressions
- Debug and fix Set Analysis expressions
- Use other advanced functions such as Hierarchy and Aggr
- Validate the data and the results
- Identify advanced data modeling and table integration approaches used to develop QlikView applications
- Explain QlikView data storage concepts and apply performance tuning techniques
- Explain the fundamentals of Direct Discovery

## Course Outline

- QlikView data storage
- QlikView data modeling
- Incremental loads
- Expression calculations
- Set analysis components
- Advanced set analysis
- Controlling dimensions and expressions
- Alternate states
- Additional functions
- Resources
- Enterprise deployment
- Direct Discovery

\*Availability varies by region

# QlikView Performance and Scalability

## Description

QlikView Performance and Scalability is a technical course that gives students the information, tools, techniques, and exercises to become knowledgeable in the planning, analyzing, designing, and testing of an optimal QlikView platform. Covered topics include application design and architecture, hardware configurations and environment, and usage, load testing, and analysis.

## Class Type and Duration

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

## Course Prerequisites

- Experience in creating QlikView applications in a production environment
- Experience in designing and building QlikView data models
- Experience in creating QlikView expressions including Set Analysis, Comparative Analysis, Aggr, and other advanced functions
- Experience in creating ODBC, OLEDB and other data connections
- Knowledge of creating QVDs
- Knowledge of aggregating data using QlikView Load Script
- Understanding of configuration and administration of QlikView Server/Publisher

## Audience

- Data Architects
- System Administrators
- Qlik Partners
- Qlik Consultants

## Skills Learned

- Explore the elements that influence the performance of the QlikView platform
- Test the performance of the QlikView platform using analytical tools, logs, and techniques
- Develop applications that operate as efficiently as possible for a given data set
- Describe techniques to best handle challenges presented by large data
- Understand how the physical environment affects performance and what elements contribute to a high-performing and scalable QlikView environment

## Course Outline

- Evaluating performance and usage
- Performance testing
- Using scalability tools
- Application architecture and effects on performance
- QlikView data storage and big data
- Multi-tier and segmentation concepts
- Developing for scalability
- Server hardware architecture
- Memory usage and disk storage
- CPUs, cores, connections, and NUMA
- Scaling QlikView

\*Availability varies by region

# QlikView for the Business User – on-demand training

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## Description

Want to learn more about what you can do with QlikView as a business user and how to harness Qlik's capabilities to meet your business needs? This 45-minute on-demand course takes you, the business user, through how to modify QlikView applications and how to collaborate with other users using QlikView's social and collaborative features. For more information and pricing, please contact your [Qlik regional training manager](#)

## Class Type and Duration

- Variable pricing options
- 45 minute on-demand video

## Course Prerequisites

None

## Audience

Business Users

## Learning Objectives

**By the end of this course, you will be able to:**

- Create, name and move a sheet
- Place objects on a sheet
- Copy and link objects between sheets
- Use the versatility of the list box
- Make a query using a list box
- Use and work with the repository
- Use the expressions editor
- Change an existing chart in an application
- Create and share bookmarks with other users
- Create notes and comments on objects
- Set up and take part in a Collaborative session



# QlikView Technical Library – on-demand training

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## Description

QlikView Technical Library is a for-fee offering. It contains a comprehensive set of over 50 training modules, each five to 10 minutes long, which will equip your technical team to build and deploy QlikView apps. Each module covers a specific topic related to creating QlikView apps, ranging from introductory concepts to advanced topics. For more information and pricing, please contact your [Qlik regional training manager](#)

## Class Type and Duration

- Variable pricing options
- 5 to 10 minutes per video
- Collection of over 50 on-demand videos

## Course Prerequisites


None

## Audience

- Business Users
- Business Analysts
- Data Architects
- Project Managers

## Learning Objectives

**The QlikView Technical Library modules span the following topics and much more:**

- Creating sheets and sheet objects, including list boxes, tables, gauges, and charts
  - Using special objects, including current selections, search and statistics
  - Advanced layout using containers, fast change, multi boxes and minimized charts
  - QlikView expressions, variables and dimensions
  - Sheet design with text, lines and buttons
  - Adding comments, tags and metadata to apps
  - QlikView data structure, and working with the script editor and the debugger
  - Loading data from ODBC, OLEDB and other data sources
  - Advanced data integration: joining tables, table concatenation, cross table loads
  - Avoiding synthetic keys and circular references
  - Understanding and using QlikView Data Files (QVDs)
  - Security and section access
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# QlikView Designer Certification

## Description

The QlikView Designer 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. To take the exam, register at [Pearson VUE Test Centers](#) globally.

## Format

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

## Language

- English
- Brazilian Portuguese
- Simplified Chinese
- French
- German
- Japanese
- Spanish
- Russian

## Audience

- Business Analysts (QlikView Designers)
- Data Architects (QlikView Developers)

## 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. To achieve certification, you must pass an exam based on skills and knowledge related to a certain role and its tasks.



Exam duration and number of questions is subject to change for new exam versions. For the latest information about available languages, log into [pearsonvue.com/qlik](https://pearsonvue.com/qlik).

# QlikView Developer Certification

## Description

The QlikView Developer 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. To take the exam, register at [Pearson VUE Test Centers](#) globally.

Note: Passing the QlikView Developer exam grants you both the Developer and Designer certifications.

## Format

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

## Language

- English
- Brazilian Portuguese
- Simplified Chinese
- French
- German
- Japanese
- Spanish
- Russian

## Audience

- Business Analysts (QlikView Designers)
- Data Architects (QlikView Developers)

## Exam Prerequisites

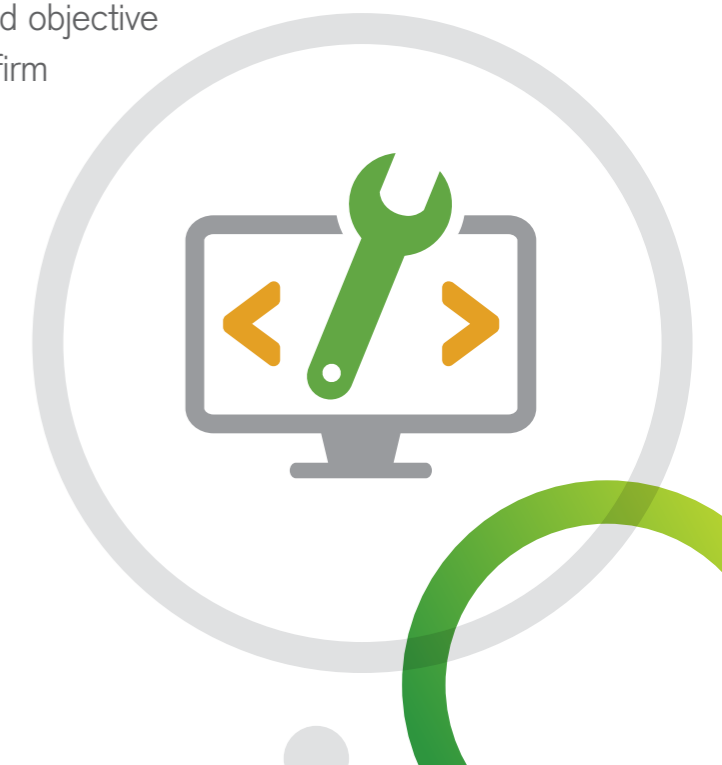
- Advanced knowledge of Business Intelligence, reporting, and/or data analysis
- Knowledge of SQL and/or other scripting languages, data modeling, data visualization and advanced QlikView functions
- Practical experience working with QlikView to design and develop applications
- User interface design 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. To achieve certification, you must pass an exam based on skills and knowledge related to a certain role and its tasks.

Exam duration and number of questions is subject to change for new exam versions.

For the latest information about available languages, log into [pearsonvue.com/qlik](https://pearsonvue.com/qlik).



# 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. To take the exam, register at [Pearson VUE Test Centers](#) globally.

## Format

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

## Language

- English
- Japanese
- German
- Spanish
- Portuguese

## 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. To achieve certification, you must pass an exam based on skills and knowledge related to a certain role and its tasks.



Exam duration and number of questions is subject to change for new exam versions.

For the latest information about available languages, log into [pearsonvue.com/qlik](https://pearsonvue.com/qlik).

**Qlik**  | Education

Programs



# Qlik Skills Assessment

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## 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 both QlikView and Qlik Sense
- Select the role that best fits what you do: Visualization Author, Data Architect or Qlik Administrator for Qlik Sense, and UI 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

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## Description

Custom Application Training delivers everything you need to drive adoption of Qlik products and applications with your business users. By delivering custom on-demand training designed specifically for your Qlik application(s), Custom Application Training helps your organization increase adoption and return on investment. To learn more, please contact your local training manager.

## Benefits

- Provide targeted training based on use cases using your application for job-related business discovery
- Maximize ROI by giving business users confidence to make discoveries and take action using Qlik applications
- Empower business users to explore relevant data and make transformative discoveries that lead to better decisions for their area of the business

## Features

- Available for both QlikView and Qlik Sense
- Custom on-demand videos and reference materials for your specific Qlik application(s)
- Launch Kit containing communication templates and best practices
- Complimentary QlikView® for the Business User modules
- Assigned Qlik Learning Consultant to help you create a tailored training rollout plan



# Qlik Academic Program

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## Description

Students preparing for careers in today's challenging, global data-driven environments need to raise the bar to succeed. They need exceptionally strong analytical skills and tools to keep pace with rapid change and make better decisions faster. The Qlik Academic program is designed to give students the skills and tools they need to succeed while ensuring that professors are teaching the most up to date business discovery and data visualization platforms. Through this Corporate Social Responsibility mission, Qlik provides qualified university professors, students and researchers with free Qlik licenses and complimentary learning resources to become expert Qlik users. To learn more contact [academicprogram@qlik.com](mailto:academicprogram@qlik.com).

## Benefits

- Real-world relevance by connecting theory to practical applications
- Richer learning experience by driving the necessary analytical and critical-thinking skills
- Faster results with Qlik's associative experience to generate data discoveries

## Features

- Free Qlik licenses for qualified university professors, students, and researchers
- Free online training
- Free seat to attend classroom training
- Free Getting Started Webinars
- Free Qlik Community support videos
- External resources available online

## Program Qualifications

The Qlik Academic Program is for accredited, nonprofit, university-level institutions, both privately and publically funded, within higher education. Grants are considered for the following:

- Professors or visiting instructors, who are formally associated with an accredited institution and will use Qlik in a formal course curriculum.
- Academic research and/or education purposes including faculty instruction and student projects. Students using Qlik for project use will need to have a professor or instructor apply on their behalf.





## Contact

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

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

qlik.com

