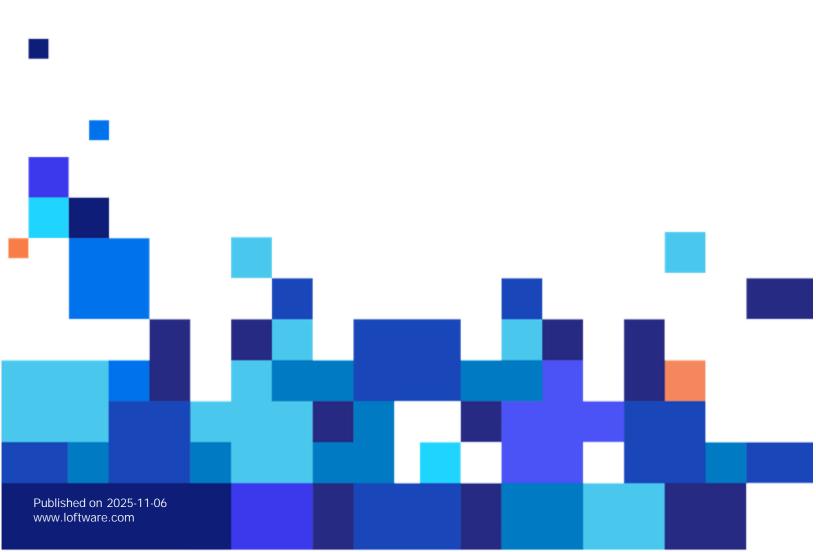# Loftware Academy

Content catalog for Loftware Enterprise-SP

Courses

Improve your skills and learn best practices in Loftware Academy.

IT administrators, operations managers, QA supervisors, label designers, and others can take specialized Academy courses and learn to use Loftware products to effectively design, manage, print, use applications, and automate labeling in your printing environment.

Academy courses range from 30 minutes to several hours and include interactive labs and quizzes to test your skills. We regularly add and update Academy courses.

Collection	Course Title	Difficulty	Description	Learning goals
General Knowledge	Navigating Enterprise-SP (Spectrum)	Beginner	This course covers the basics of how to get around in Enterprise-SP (Spectrum). Learn about the interface and main screens, signing in, accessing the online help, and how to define your user preferences.	About the interface and main screens How to sign into and navigate Enterprise-SP How to access and use the online help How to set your User Preferences
General Knowledge	Learning in the Academy	Beginner	Welcome to the Academy. This course will teach you how to use our learning system.	How to navigate within the academy and courses. About the key training tools, like courses and certifications. How to submit quiz answers and lab files for grading.
General Knowledge	Introduction to Dynamic Labeling	Beginner	This course introduces the concept of Dynamic Labeling. You'll learn about the benefits, how it's used, and how it impacts labeling changes. You'll also get to see some relatable examples.	Learn the differences between static and dynamic labeling. Learn the benefits of dynamic labeling. Learn how dynamic labeling is utilized. See some relatable examples of how label changes are addressed using both static and dynamic labeling.
General Knowledge	How to translate courses in Loftware Academy	Beginner	Learn how to translate Academy courses into your preferred language.	Learn how to translate Academy courses using Loftware Academy tools. Learn how to translate Academy courses using your browser tools.
General Knowledge	Introduction to Loftware Enterprise-SP (Spectrum)	Advanced	This course will guide you through the architecture and basic features of Loftware Enterprise-SP, helping you understand how to effectively utilize the platform to meet your labeling requirements.	Learn about the basic features and benefits of Loftware Enterprise-SP (Spectrum). Learn the journey a label can take through the system. Identify the capabilities of the system.

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Migrating from LPS	Converting LPS Labels to Enterprise-SP	Beginner	Learn how to convert LPS labels to Enterprise-SP label format using the LPS Migration Portal.	Learn about the LPS Migration Portal and its results. Convert your LPS label templates to Enterprise-SP label templates. Receive and review the conversion report. Open and test a converted label.
Migrating from LPS	Overview of LPS migrations	Beginner	The course provides you with a high-level overview and basic understanding of the migration process from LPS to other Loftware software.	Understand the migration process and steps. Learn how to communicate with Loftware. Explore the different roles involved in migration.
Migrating from LPS	Design & Print Concepts in LPS and Enterprise-SP	Beginner	Learn how design and print concepts in LPS translate to Enterprise-SP.	Learn about typical Loftware Print Server (LPS) and SpectrumNOW architectures. Learn about typical LPS and Spectrum print processes. Explore how Loftware Label Manager (LLM) design elements look in Spectrum. Identify LLM label template features that can be converted to Spectrum.
Migrating from LPS	Consolidating Your Files (Artifacts) For Migration	Beginner	This guide helps you understand consolidation and decide what to consolidate before starting your project.	Understand the importance of consolidating labels in your migration project. Know who is responsible for consolidation and the timeline. Learn the benefits of properly consolidated artifacts. Follow best practices and key considerations for consolidating labels and artifacts.
Migrating from LPS	Gathering LPS Files (Artifacts)	Beginner	Learn how to gather your LPS files for migration and what to do once you have them.	Run the GetLPSArtifacts script to collect your LPS Artifacts. Learn how to manually retrieve LPS Artifacts. Learn how to troubleshoot common problems with the collection process.
Migrating from LPS	The Go-Live Event	Beginner	The course helps you plan for the big day of transition from your LPS system to your new Loftware solution.	How to prepare for the new solution Go-Live How to create and approve acceptance tests How to prepare your support teams for the day of the Go-Live

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Migrating from LPS	Preparing for your LPS Migration Project	Beginner	This course helps you prepare for your upcoming LPS (Loftware Print Server) migration project.	The people involved in migration (both at your company and Loftware). The individual migration steps. The final LPS artifact collection. Environment deployment and label migration. User acceptance testing and the go-live event.
Spectrum Label Design	Label Data Sources	Beginner	Learn about data sources and basic data mapping. You'll configure some common data sources in a label template and see how they are reflected on the label and in the data map when you print.	Learn about key label data sources and basic data mapping in Enterprise-SP Create a label template with common label data sources: Data Entry, DateTime, Counters (IncDec), and Formulas View the data map for a label
Spectrum Label Design	Working with Images	Beginner	Learn how to add your images to Enterprise-SP and use them on your label templates.	How to import images About image properties How to add variable images How to bulk import images
Spectrum Label Design	Basic Label Troubleshooting	Beginner	Find problems on your label templates and resolve them.	Learn techniques to troubleshoot your basic label design See how to use the status screen to check your label prints
Spectrum Label Design	Designing a Simple Label Template	Beginner	Learn how to navigate the Enterprise-SP (Spectrum) design interface and create your first label template.	Learn about the Label Design interface. Learn how to setup and save a label template. Create a simple label template.
Spectrum Label Design	Creating a Simple Input Form	Beginner	Learn how to create a basic label data entry form built into your label template.	Sign in and open the pre-made label template Save a copy of the template to your working folder Create your form Add Prompt fields Test and correct your prompts

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Spectrum Advanced Label Design	Design Data Options	Intermediate	This module shows different ways to represent dynamic data while designing a label template.	Learn three different ways to use data when designing your labels
Spectrum Advanced Label Design	Layers	Intermediate	A layer can be used on many different label templates, which allows you to affect many labels with a single change.	About the concepts of layers How to create layers How to add layers to a label template
Spectrum Advanced Label Design	DaVinci Compare Tool	Advanced	Learn about the DaVinci Compare tool - a way for you to do a pixel-by-pixel comparison of two different labels or of two versions of the same version-controlled label.	Davinci setup - How to install and configure the comparison server. How to request a comparison. How to use the DaVinci interface.
Spectrum Advanced Label Design	External Data Sources	Advanced	This course shows how to retrieve data from external databases and files outside of the Spectrum environment and include that data on your label printouts.	Learn about connecting to external data through a data service Learn to configure external data sources on your label design Configure a data lookup trigger Link the connected data to your labels through data references See how you can configure on demand printing for different use cases
Spectrum Advanced Label Design	Reusable Objects	Intermediate	Learn about Reusable Objects - design elements and components that you create once and use again and again whenever you need them.	Create a new reusable object Add reusable objects to your label template
Spectrum Advanced Label Design	Version Control	Intermediate	Version control is Spectrum's method for managing document revisions. Version control helps label designers and approvers maintain a process where label validation is required.	Create and use version-controlled folders Work with version-controlled documents Publish a document

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Spectrum Advanced Label Design	Using the GS1 Barcode Wizard	Intermediate	This course introduces you to the wizard tool to create GS1 barcodes on your label templates in Enterprise-SP (Spectrum).	Overview of GS1 Barcode Standards How to use the Barcode Wizard to create GS1 barcodes How to modify an existing barcode formula to manage human-readable text
Spectrum Advanced Label Design	Multi-Label Layouts	Advanced	Learn to create layouts for printing multiple labels on a single sheet of label stock.	Learn about layout use cases Learn about stock layouts included with Enterprise-SP Learn to create custom layouts Learn how to print labels with layouts
Spectrum Advanced Label Design	Dynamic Text Formatting	Intermediate	Learn how to apply rules to dynamically format the text on your label at print time.	Format text dynamically based on the data
Managing Spectrum	Role-Based Access Control	Beginner	Set up Spectrum permissions and access controls so your users can access locations, labels, and printers they need without risking costly mistakes by selecting the wrong labels, printers, or data.	How to set up roles, users, and group permissions. How to set up access control lists and exceptions for object permissions. How to use object permissions to create custom security and provide scalable security for your users.
Managing Spectrum	System Management Applications	Intermediate	Learn about the different administrative levels and how they are used for Spectrum system management. You'll also learn about the different applications associated with each administrative level.	Learn how the different administrative levels are used for Spectrum system management. Learn about the different System applications associated with each administrative level.
Managing Spectrum	Managing Printers	Beginner	Learn how to add, manage, and test printers in Enterprise-SP (Spectrum).	How to add new printers to Spectrum How to configure printer properties How to perform test printing

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Managing Spectrum	Object Promotion	Beginner	Learn how to move, or promote, targeted objects and their related components between Spectrum environments or instances.	About Object Promotion The advantages and requirements Object Promotion options How to navigate Object Promotion
Managing Spectrum	Process and Business Rule Overview	Intermediate	Learn how to create business rules that allow you to apply logic to your printing process.	About Business Rules How to use the components necessary to add logic to your printing process
Managing Spectrum	Self-Service Licensing	Beginner	Learn about the Loftware Licensing Server - a secure self-service website that allows you to access and manage your Spectrum licenses as needed based on your contract entitlements.	How to Register your Company. Learn what options you have for Licensing with Spectrum. Licensing User Management Create License Sequence Voiding a License
Spectrum Troubleshooting	Troubleshooting Techniques	Advanced	Simple techniques for approaching and managing troubleshooting issues in the Spectrum environment.	Identify and reproduce the symptoms Narrow your search Look for answers Turn to Loftware support Identify a workaround
Spectrum Troubleshooting	Spectrum Logging	Advanced	Loftware Spectrum logs information, error, and warning messages to a set of log files.	How Spectrum logging assists in targeted troubleshooting How to look up logs in Spectrum About multiple logs within the Spectrum application and the unique purpose they serve
Spectrum Troubleshooting	Modifying Spectrum Logging	Advanced	This course show you how to modify the Spectrum logging and how to set the log file maintenance.	Logging Appenders and Rollers How to modify logging levels How to add new loggers Maintaining custom logging

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Spectrum Troubleshooting	System Alert Logger	Advanced	Learn how to configure and interpret the Service Alert logs.	Learn how to configure the Spectrum system for Service Alerts Learn to set the alert metric levels Learn how to view and interpret the Alert log file
Spectrum Troubleshooting	Troubleshooting Print Jobs	Advanced	This modules demonstrates the Spectrum tools and techniques used to troubleshoot printing issues.	How to use the Job Status program How to use the Printer Status program How to use the Queue Status program Learn to decipher error messages
Advanced Spectrum Configurations	Integrating with Enterprise Systems	Advanced	An Introduction to the location and configuration items for standard integrations into Oracle, SAP, and typical JMS (java messaging service) built into Spectrum.	Learn about built-in integration methods for common Enterprise data applications.
Advanced Spectrum Configurations	HQ/Facility Synchronization	Advanced	This course introduces you, the system installer or administrator, to a remote-site deployment of Loftware Spectrum, which is a Spectrum instance at one site that is synchronized with a Spectrum instance at another site.	Learn how the advantages of the HQ/Facility Architecture Learn how a Spectrum instance at one site is synchronized with Spectrum instances at other sites
Advanced Spectrum Configurations	High Availability	Intermediate	This course introduces system installers and administrators to high availability, which is the ability of a system to operate continuously without fail when running more than one application server.	What high availability is within Spectrum. The advantages of high availability. How to configure Spectrum services for high availability.
Advanced Spectrum Configurations	Failover	Intermediate	This course introduces system installers and administration to failover, which is the ability of a system to operate continuously without minimal to no downtime.	Learn how to identify Failover configurations Learn to set up services as Failover services in multiple application Spectrum deployments

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Advanced Spectrum Configurations	Load Balancing	Intermediate	This course introduces load balancing to system installers and administrators who configure and manage services. Load balancing is balancing the service's load across multiple application servers, allowing for higher throughput by distributing the workload across two or more servers.	Identify and plan load balanced servers. Which services require load balancing or failover.
Advanced Spectrum Configurations	Disaster Recovery	Intermediate	Learn about Disaster Recovery. This course is for system administrators and/or installers who would configure and manage the database installations and configurations.	About the process of installing Disaster Recovery. Configuration, failing over, and failing back the database servers with Disaster Recovery. How the Loftstore database is used for Disaster Recovery.
Advanced Spectrum Configurations	Spectrum Installation Models	Intermediate	This course introduces you to the different options that a system installer has with Spectrum Installation Models	Learn to be able to select the best Spectrum Installation Models. Learn the advantages of each installation model. Learn the system requirements for each installation model
Advanced Spectrum Systems and Tools	Using Spectrum SOAP API	Advanced	This course will help individuals new to web services as well as seasoned solution designers interested in communicating to Spectrum to send job information and request label outputs using a SOAP web interface.	About the SOAP protocol See what SOAP options are available natively in Spectrum Use example requests to send Spectrum SOAP messages
Advanced Spectrum Systems and Tools	Spectrum Business Intelligence	Advanced	This course describes the installation and usage of the Spectrum Business Intelligence tool.	How to install the business intelligence server software How to configure Spectrum to use the business intelligence software Examine the user interface and standard reports How to create your own reports and dashboards
Advanced Spectrum Systems and Tools	Using Scripting on Labels	Advanced	Adding a script to a label can add value to your designs and reduce the total number of label templates needed while eliminating the need for logic in your front-end system. This course shows you how.	How to add a script to a label template How to change data values in the job How to change field properties on a label

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Spectrum Business Solution Development	**Overview and Terminology**	Intermediate	You will learn the terminology of Spectrum and how objects and actions work together to print labels.	Learn to identify object relationships About the printing process structure About the printing and business logic definitions and relationships
Spectrum Business Solution Development	**Planning your Business Logic**	Intermediate	This course is focused on best practices around code planning to meet your business needs more seamlessly.	How to start your business logic planning. Learn how to determine the need for a business rule Learn how to plan business rules Learn how to test and document
Spectrum Business Solution Development	Implementing Business Rules	Advanced	An expansion on the purposes of business rules and an overview of the structure and use of business rules.	Business rule use cases. Business rule components and structure. How to manipulate the data map using business rules.
Spectrum Business Solution Development	Business Rule Configurator	Advanced	Learn about the Business Rule Configurator, and how to use it to create a new Business Rule.	Become familiar with the Business Rule Configurator (BRC) user interface Learn how to create a new business rule
Spectrum Business Solution Development	Spectrum Cross-Reference Tables	Advanced	Learn about using Cross-Reference Tables to create and manage custom data tables using applications that are already available to you in the Spectrum UI.	Learn about the cross-reference table schema in the Loftstore (Spectrum main database) Learn about the Admin and User Applications for managing cross-reference tables How to create new cross-reference tables How to view and update cross-reference tables How to delete cross-reference tables How to grant access to cross-reference applications
Spectrum Business Solution Development	Spectrum Application Builder	Advanced	Learn how to use the Application UI to build solutions that combine customized user interactive screens to create a unique user label printing experience.	How to plan an application How to use the Application Design interface How to build a simple application

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Collection	Course Title	Difficulty	Description	Learning goals
Spectrum Business Solution Development	Implementing Processes	Advanced	Learn how to create and configure a new process that collects all the information you need to print either from integration or on-demand.	What a Spectrum process is How processes are used to combine job elements The types of processes How to configure and print from a process

Learning Paths & Certifications

Certifications bundle multiple courses on a specific topic. Complete all courses in the certification to receive your certificate, which you can share on your CV or LinkedIn.

Certifications expire after a couple of years. You can renew them.

Title	Time estimate	Description	Recommended for
Spectrum Troubleshooting	3.25 h	A structured way for label troubleshooters to investigate printing issues in Spectrum	Administrators, Developers
Spectrum Solution Developer	5.75 h	Understand the Spectrum printing process, create Business Rules using the Business Rule Configurator, and using the cross reference data application.	Developers
Spectrum System Excellence	3 h	System administrators and IT users learn about installation configuration.	System administrators, IT
Spectrum Design Excellence	6 h	Learn how to use advanced label design features like layers, label specific options, or reusable elements.	Label Designers
Spectrum Design Essentials	6 h	The Spectrum Design Essentials gives label designers the necessary skills to start designing and printing labels in Spectrum!	Label Designers

Title	Time estimate	Description	Recommended for
Spectrum Advanced Systems	3.25 h	Explore specialized Spectrum tools available for more advanced integrations and reporting.	Administrators, Developers, Power Users
Spectrum System Essentials	5.5 h	Learn how to configure a working environment, configure access control and manage the Spectrum system.	System Administrators