Pentaho Training Course Catalog

2012 Edition

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Introduction to Pentaho Training

Thank you for your interest in Pentaho Training! By investing in training, you have taken a significant step in becoming productive in your implementation of Pentaho products. Even seasoned professionals benefit from regular training to remain up-to-date with the latest Pentaho BI technologies and techniques. Pentaho Training offers industry leading, high value, and actionable instruction designed to give you a high return on your investment, to increase your probability of success, and to teach you the skills to take full advantage of Pentaho's BI technology.

Choosing the Right Course

One size definitely does not fit all. We understand that different users require different knowledge and skills. Each Pentaho Training course is targeted to match knowledge areas and skills to specific audiences. Use the course numbers (described below) and the description of each course to choose the best courses for you.

Course Numbers

Course numbers uniquely identify each course and can be used to quickly discover the content of the course, the experience level of its targeted audience, and its delivery mode. For example, the course number of the Reporting Design Techniques course (RPT1175W) identifies this web-based course as a member of the *Reporting* knowledge area and an entry-level course.

Knowledge Areas	Description
SLN	**Solutions** Overview courses that present a broad and conceptual view of the tools of the Pentaho Business Analytics suite. These courses are designed for solution architects and business analysts interested in learning the methodologies and tools involved in end-to-end solution development.
ADM	**Administration** Product courses designed to teach the skills and tools involved in installing, configuring, and maintaining the Pentaho Business Analytics Suite. These courses are designed for administrators and system integrators.
ALY	**Analysis** Product courses targeted at teaching the functionality and use of the tools associated with Pentaho analysis. These courses are designed for OLAP developers.
PDI	**Data Integration** Product courses targeted at teaching the functionality and use of the tools associated with Pentaho Data Integration. These courses are designed for ETL developers.

RPT	**Reporting** Product courses targeted at teaching the functionality and use of the tools associated with Pentaho Reporting. These courses are designed for report authors and developers.

Knowledge Areas

Our courses are organized into knowledge areas to help you choose the right course. In terms of content, there are two types of courses: solution courses and product courses. Solution courses teach concepts and methodologies, present a broad view of the Pentaho Business Analytics suite, and involve several products. They are intended to teach the skills to architect entire BI solutions. The product courses, however, are more task-focused and are targeted for specific product areas such as reporting, administration, data integration, and analysis. They present a more comprehensive exploration of specific tools of the Pentaho Business Analytics suite.

Class Level

The numerical part of each course number identifies the course level. The first digit of the course level indicates the experience level of the targeted audience. Beginning with entry-level courses in the 1000s, the higher the class level the more experience and knowledge is required to maximize the impact of the content.

Class Delivery

The last character of the course number indicates the delivery mode: classroom (C) or web-based (W). All courses are instructor-led to maximize instruction through lectures, instructor-led demonstrations, and interaction with Pentaho Certified Instructors. Classroom delivered courses also use hands-on exercises to reinforce the instruction. Pentaho schedules courses at various locations worldwide. On-line courses are scheduled for various time zones and are offered as a series of 3-hour sessions.

Tailored On-site Courses

Although Pentaho Training courses address different audiences, project requirements and constraints may require specialized training or limited disruption. For that reason, our courses can also be tailored and delivered as on-site. That is, we can partner with you to tailor a course to meet your specific needs and teach the course at your location!

Course Requirements

Students will need a Microsoft® Windows XP or Windows 7 computer with a 1GHz CPU, 1 GB RAM, and a DVD drive, and 750 MB of available hard drive space in order to fully participate in the classroom delivered courses. We suggest the computer have at least a 1.3 GHz CPU, 2 GB of memory, and 1 GB of available hard drive space. A text editor such as Notepad may be needed for some of the exercises. On-line courses require a broadband Internet connection and a modern web browser such as Microsoft® Internet Explorer™ 7 or Mozilla Firefox® 3.0. Visit http://developers.webex.com/api/jointest/index.php to verify your connection speed and browser compatibility for on-line courses.

Pentaho's training team is here to partner with you in realizing the power of the Pentaho Business

Analytics suite. Feel free to contact us if you have any questions or if you would like to suggest additional courses or training locations. Visit the training page on the Pentaho Web-site to register for one of the scheduled courses or to begin the process of tailoring your on-site course. We look forward to meeting your training needs!

Pentaho Training Team

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Foundation Courses

Agile BI for the Business Analyst

Course Information

Course No	Instruction Format	Delivery Mode	Duration
SLN1000	Business Analysts / End-Users	Web	3 days

Course Benefits

Agile BI represents a new approach to prototyping and validating business intelligence solutions. By enabling analysts and end-users to rapidly examine, manipulate, model and visualize business data, Agile BI accelerates the discovery of new information and helps organizations establish the value of BI projects before committing to long-term investments. This course uses Pentaho Data Integration and Pentaho's On Demand hosted environment to jump start the learning process, allowing the emphasis to be placed on solution creation and refinement.

Learning Objectives

At the completion of this course, you should be able to:

- Understand the critical success factors that determine the outcome of BI projects
- Install and configure Pentaho Data Integration
- Understand and use the PDI input, transformation and output steps that are useful when preparing data for analysis
- Create an analytic model from a staged database table
- Use Pentaho Analyzer to layout, pivot and filter multi-dimensional views
- Access and navigate the Pentaho User Console in an "on demand" hosted environment
- Create Analyzer reports with calculations, totals and charts
- Use the Ad-Hoc Report Wizard to create new reports
- Use the dashboard designer to create charts and combine them with reports and analysis views
- Understand the requirements, tasks and resources needed to put an Agile BI solution into wide-scale production

Who Should Attend

This course is designed for business analysts, end-users and others who regularly prepare data for consumption by decision-makers.

Course Prerequisites

This course has no Pentaho Training course prerequisites.

Course Requirements

Students will need a Microsoft® Windows XP or Windows 7 computer with a 1GHz CPU, 1 GB RAM, and a DVD drive, and 750 MB of available hard drive space in order to fully participate in the classroom delivered courses. We suggest the computer have at least 1.3 GHz CPU, 2 GB of memory, and 1 GB of available hard drive space.

Course Outline

Day 1 **Time Estimate**

Module	Est. Duration (hours)
What is Business Intelligence Why BI projects fail The Problems Abandonment	.5
What is Agile BI? Why should you take an Agile approach? What are the expected benefits? How does Agile BI fit into the “Big IT Picture”?	.5
Using Pentaho Data Integration to Create an Analytic Environment **Creating a Database table from a spreadsheet.** PDI basics Logging in/ Repository Data Connections **What are steps/Drag and Drop** Hops – Data Flow Input Steps CSV, Excel, Flat Files Access Output Steps	2

CSV, Excel, Table Output **Creating an Analytic Model from the Analytic Database Table** What are Measures and Dimensions **Using the Analytic Viewer** Basics – Drag and Drop / Pivot / Filter Fixing Data Errors Merging Data , Data Enrichment Take Away Lab Checkbook Application	

Day 2

Module	Est. Duration (hours)
Creating Analytic Content in the On Demand Environment **Objective** – At the end of this session the student will be comfortable logging into the Pentaho User Console, Running and Scheduling Reports **Logging in and using the User Console.** Workspace Toggle Bar	.5
Analyzer Reports **Objective** – At the end of this session the student will be able to create and save a report with Filters, Calculations, Totals and Charts. Available Field Pane Types of Fields Field Panel Types of Filters Calculations, Totals and Sorting Displaying Grand Totals and Subtotals Displaying totals as Average, Min, Max, etc Creating new Calculated Fields Help Menu and Charting	1.5
Ad-Hoc Reporting **Objective** – At the end of this session the student will be able to view and report from their Analytic Data Model using the Adhoc Reporting Wizard.	.5

What is a Metadata Model Saving a Metadata Model Using the Adhoc Report Wizard Saving the Report Scheduling/e-mailing the report Take Away Labs Checkbook Application	

Day 3

Module	Est. Duration (hours)
Creating Customized Dashboards **Objective** – At the end of this session the student will be able to create a rich variety of dashboards and save them using the Pentaho dashboard designer. **Starting the Dashboard** Template, Themes, Adding a Dashboard Title **Creating a Data Connection** **Creating Data Content** Creating a tabular report Creating Charts – pie, bar, area, line, dial Inserting a file into the dashboard Inserting a URL into the dashboard	1
Going Forward **Objective** – At the end of this session the student will understand the steps involved in getting the Analytic Environment into Production **The Road to Production** **Setting Expectations** When are you ready for a formal BI project? **Earning the right to invest in BI based on demonstrated value** What are the required investments? What will they cost? Dimensional Modeling Why / When? **Deployment Scenarios**	1.5

Hosting / On-Premise **Staffing Scenarios** **Connectivity** **Implementing Production ETL (server-side PDI)** **Roles / Responsibilities / Tasks** **Additional Learning Resources** (recommended courses – Pentaho and other)	

Pentaho Business Analytics Bootcamp

Course Information

Course No	Instruction Format	Delivery Mode	Duration
SLN5000	Instructor-led lecture/lab	Classroom	4 days

Course Benefits

Business Intelligence (BI) is a valuable tool to gain visibility into the health of departments, businesses, and business processes. The Pentaho Business Analytics suite provides a platform—including a server, client tools, and supporting technologies—that enable a full spectrum of BI functionality. This course provides a fast-paced, hands-on overview of the Pentaho Business Analytics suite for consultants and those experienced with existing BI products.

Learning Objectives

At the completion of this course, you should be able to:

- Understand the architecture of the Pentaho Business Analytics suite
- Create a Pentaho solution from start to finish during class exercises.
- Describe and demonstrate the reporting end-user experience with the Pentaho BI Server
- Use PDI and ETL to populate a basic data warehouse star schema
- Perform multiple data transformations
- Develop basic OLAP schemas for and using Pentaho analysis
- Build and deploy reports
- Discover the different ways to create and deploy a Pentaho dashboard

Who Should Attend

This course is designed for system administrators, system integrators, content developers, software developers, BI consultants, and others with previous experience creating BI solutions. This course is valuable to anyone with a basic understanding of SQL and relational database concepts. Business analysts will benefit from taking the “Agile BI for Business Analysts” course prior to attending the BI Bootcamp.

Course Prerequisites

This course has no Pentaho Training course prerequisites. This is a fast paced course intended for technical consults or those experienced in BI.

Course Requirements

Students will need a Microsoft® Windows XP or Windows 7 computer with a 1GHz CPU, 1 GB RAM, and a DVD drive, and 750 MB of available hard drive space in order to fully participate in the classroom delivered courses. We suggest the computer have at least 1.3 GHz CPU, 2 GB of memory, and 1 GB of available hard drive space. Make sure you have a text editor such as Notepad; you may need it for some of the exercises.

Course Outline

Day 1

Module	Est. Duration (hours)
Pentaho Platform Concepts Discusses the concepts of Business Intelligence and architecture of the Pentaho BI platform. A brief demonstration and discussion of the different BI tools, and when to use each.	2
Installation of the Pentaho Business Analytics Suite Provides experience installing the Pentaho Analytics suite including adding a Data Source to the Enterprise console.	1
Analysis Solutions Overview Presents an overview of the concepts and typical architecture of analysis solutions, including star schemas, fact tables and dimensions.	1
Dimensional Modeling Describes and provides hands-on experience with dimensional modeling and building star schemas.	2
ETL and Pentaho Data Integration Overview Explores the concepts and basics of extract, transform, load tools and Pentaho Data Integration. Using the Database Explorer, the automatic creation of SQL to create or alter a relational table. Using the Copy Table Wizard to easily create a new table and load it with data.	2

Day 2

Module	Est. Duration (hours)
Pentaho Data Integration Provides hands on experience with the techniques to pull data from a data source (flat file, relational table, excel files, etc) and move the data to another source. Labs will load relational from the source OLTP schema to a Star	4

Schema designed on Day 1.	
Look-ups and Field Transformations Provides experience with the techniques for performing look-ups, joining various sources of data, and transforming individual fields during transformations.	2
Set and Pivot Transformations Builds on the Look-ups and Field Transformations module by exploring for sorting and manipulating sets of data.	2
Jobs and Transformations Explores techniques for arranging transformations into jobs including the scheduling of jobs. Steps discussed include, FTP, SFTP, file creation, waiting for a file, sending email at the success of a job and others.	1

Day 3

Module	Est. Duration (hours)
Pentaho Analytics Suite Introduces the tools, concepts, and architecture of Pentaho analysis. Students create a Mondrian cube against the star schema created on Day 2, then drill and pivot the data using the Pentaho analysis Tools.	1
Schema Workbench Students will learn how to use Schema Workbench to create a basic analysis cube containing Measures, Dimensions and Hierarchies'.	1
Advanced Concepts The importance of Time Dimensions, Calculated Measures, Higher Level Calculations and a brief introduction to the power of MDX.	6

Day 4

Module	Est. Duration (hours)
Introduction to the Reporting Concepts Introduction of the Report Designer to produce high fidelity reports, including Sub Report, Charts, Parameter Screens, Calculations and Expressions.	1
Report Designer Report Wizard Demo **Provides hands on experience with:** Connecting to a Dataset, Design Elements – titles, lines, etc Hyperlinks to drill from one report to another, Grouping Data	6

Charts – Pie, Line, Area, etc Expressions - to add styles to your report like Traffic Lights and the conditional display of objects. Parameterized Reports – adding prompts and parameter screens to the report. Report Functions - creating row and summary calculations. Sub Reports, and creating a report that displays multiple report objects for a "Dashboard Feel".	
Dashboard Designer Detailed demonstration and lab using the new dashboard designer. A discussion of the Community Dashboard Framework.	1

Pentaho Architect's Bootcamp

Course Information

Course No	Audience	Delivery Mode	Duration
SLN7000C	Enterprise or OEM customers and Pentaho partners	Classroom- Instructor-led Lecture/Lab	4 days

Course Benefits

This course is designed to sufficiently tool a Pentaho solution builder to customize and extend Pentaho solutions and the Pentaho products (heavily focused on the Pentaho BI Server) to meet the needs of customers that are looking for functionality beyond "out of the box" capabilities.

The course is broken into three sections:

Section 1: Building Solutions (2 Days)

Master the "Art of the Possible" with Pentaho solutions. Solution builders learn how to deliver results using powerful Pentaho technology that is flexible enough to model the customer's own business logic. The course takes an in depth look at action sequences, business intelligence components and how they work together to deliver precise solutions for your real world business intelligence needs.

This part of the course also includes hands on advanced solution building using the latest capabilities in the Pentaho BI Suite of tools. Learn the best-practice way to create solutions that use the appropriate tool for maximum performance, minimum maintenance, and fastest delivery of a solution to your customer's problem.

At the end of the day, you'll be able to answer common questions around Pentaho solutions, like:

1. How do I build dynamic chart drill linking?
2. How do I build solutions with dynamic, custom-logic driven or cascading filters?
3. How do I achieve report to report linking in Pentaho's mashups?

4. How do I increase interactivity in my Pentaho reports to include forms, URL linking, email or AJAX functionality?
5. …and many many more!

Section 2: Extending Pentaho (1 Day)

When it comes right down to it, your enterprise business intelligence requirements need concrete, specific solutions that solve every dimension of the business problem. How do you leverage the Pentaho BI Server to create data and solution perspectives based on your customer's business requirements? Pentaho Architect's Bootcamp shows you how.

Extending Pentaho is all about discovering the best-practice, recommended extension points in the server and using them to incorporate features based on your more complex needs. Understanding the APIs and knowing where the common entry points are eliminates the migration or upgrade headaches associated with customizing software.

The course covers commonly extended APIs for security features, Metadata, Mondrian (OLAP), SQL querying and much more. Learn the exact entry point to accommodate your requirements every time – whether your customers use Analyzer, Web Adhoc Query and Reporting, Pentaho User Console, or your own custom user interface or dashboard mashup.

Questions answered around extending Pentaho include:

1. How do I plugin additional BI Server functionality leverage-able in action sequences, in custom visualizations, or as new datasources to my BI solutions?
2. How do I customize security while also using my existing system's users and roles with Pentaho?
3. How do I dynamically control what portions of a Mondrian Analysis schema a user may view after authenticating to the Pentaho BI Server?
4. How can I dynamically filter the data view a user sees when they are accessing the data through Pentaho's customer facing applications?

Section 3: Integrating Pentaho (1 Day)

At Pentaho, we believe that Business Intelligence is always part of a larger process. Business Intelligence by itself does not solve problems; BI solutions, followed by corrective action, followed by another look at your solution are the path to better business through Business Intelligence.

Pentaho believes so strongly in the integrated nature of Business Intelligence that we built our software that way. The Pentaho BI Suite of products are easily embeddable and easily integrated products. Integration can be achieved as a whole or as razor thin as integrated access to the results of a single report.

The last part of the course will introduce you to the web services that give you complete control over how much – or how little – of the Pentaho application is delivered to your users. Maybe you only want to deliver a single chart that summarizes key details on a dashboard owned by your existing application. Pentaho can accommodate. Maybe you want Pentaho Analyzer to appear embedded in your application, or as a standalone application. Pentaho can do that. Whether it is reports, dashboards, analysis, background execution of solutions, scheduled delivery of content – all of these valuable solutions can be accessed as independent services and displayed in your web application or Pentaho's.

Attend the Pentaho Architect's Bootcamp to learn the best-practice methods for integrating and embedding the Pentaho BI Suite of products.

Who Should Attend

The targeted audiences for this course are large Enterprise or OEM customers and Pentaho partners. The student will be a Pentaho solution builder and/or software developer comfortable with XML, Javascript, and Web 2.0 concepts. A basic understanding of Java programming is helpful, but not critical.

Learning Objectives

At the completion of this course, you should be able to:

- Have a solid understanding of Pentaho action sequences and the power they bring to Pentaho solutions.
- Be able to develop dashboard solutions and content mashups using Community Dashboard Framework, Community Data Access, action sequences, Pentaho Reports, Pentaho Data Integration, and Pentaho Analysis
- Be able to use Pentaho web services to deliver Pentaho solutions and Pentaho web clients within your own web application or mashups
- Be able to develop basic BI Server actions and plugins, incorporating custom functionality into the Pentaho BI Server and your solutions
- Understand the best practice extension points to expand the Pentaho BI Server to cover your customer's complex requirements
- Be able to implement a custom security plan for the Pentaho BI Server

Course Prerequisites

This course has a prerequisite of Course SLN5000, Pentaho BI Suite Bootcamp, or equivalent expertise with the Pentaho BI Suite. The course is a fast paced course intended for a technical audience with a firm grasp of business intelligence and the Pentaho BI Suite.

Course Requirements

Students will need a Microsoft® Windows XP, Vista or Windows 7 computer with a 1GHz CPU, 1 GB RAM, and a DVD drive, and 2GB of available hard drive space in order to fully participate in the classroom delivered courses. We suggest the computer have at least 1.3 GHz CPU, 2 GB of memory, and 2 GB of available hard drive space.

Course Outline

Day 1

Session	Est. Duration (hours)
Action Sequences Discusses the concepts of an action sequence, its composition and the powerful role action sequences play in Pentaho solutions.	2
Advanced Content Creation Advanced techniques used in report design, ETL transformation design, analysis schema design and metadata model design.	4

End to End Solution Development Instructor led lab taking the student through a real-world BI solution scenario utilizing the tools covered throughout the day.	2

Day 2

Session	Est. Duration (hours)
Community Dashboard Framework & Community Data Access Covers the composition, components, and templating and dashboard interactions available in the Community Dashboard Framework & Community Data Access projects.	2
Solutions Security Presents the solution security model and the different usages throughout the individual products and the Pentaho BI Server.	1
Enterprise Dashboards Explore the power, flexibility and ease of use of Pentaho Enterprise Dashboards	2
End to End Solution Development Instructor led labs taking the student through a real-world BI solution scenario utilizing the tools covered throughout the day.	2

Day 3

Session	Est. Duration (hours)
How to Get and Build the Code An exercise in understanding the common Pentaho build and development environment, and best practices for working with the code.	2
Building Server Actions and Plugins Covers building custom actions and exploring the feature availability in a Pentaho BI Server plug-in.	3
Exploring the BI Server APIs Explore the popular Pentaho APIs for extensibility; review reference of most common APIs.	3

Day 4

Session	Est. Duration (hours)
Implementing Custom Security Features Explores creating a custom security data access object and a custom security solution for the appearance of single sign on.	2
Customizing Pentaho User Console	1

Covers techniques available to customize the Pentaho User Console	
Content Integration Explores the services available via the web for executing actions sequences and other content; basic coverage of the Pentaho AJAX API.	1
User Interface Integration Covers complete integration examples of Enterprise Dashboards, the Web Adhoc and Query Reporting tool, as well as the Pentaho Analyzer tool.	1
Interacting With Pentaho Web Services Covers WSDL and non-WSDL web service availability within the Pentaho BI Server.	1
Integrating Security Covers Spring security and a demonstration of Pentaho's integration with CAS (Central Authentication Server).	1

Module-specific Courses

Pentaho Data Integration for Database Developers

Course Information

Course No	Audience	Delivery Mode	Duration
PDI2000C	Database Developers	Classroom	4 days

Course Benefits

Data is increasingly becoming the currency of business. Efficiently moving and transforming data between business systems and processes are keys to maximizing the use of data to make informed decisions. This course provides foundational theory, best practices, design patterns, and hands-on exercises utilizing Pentaho Data Integration to maximize the value of data to the organization.

Who Should Attend

This course is designed for database developers and administrators; however, it is valuable to anyone with at least two years of experience with SQL and relational database design/implementation.

Learning Objectives

At the completion of this course, you should be able to:

- Understand the basic architecture of Pentaho Data Integration (PDI) and its modules
- Load and write data from and to different data sources
- Join data from different sources
- Perform multiple data transformations
- Use PDI and ETL design patterns to populate a data warehouse

- Influence the performance aspects of databases and PDI
- Develop advanced transformations and jobs
- Build portable and flexible jobs
- Use the logging, monitoring and error handling features
- Use JavaScript and Java classes into transformations
- Load, transform and create complex XML structures
- Retrieve and serve data via web services using PDI and the Pentaho BI Server
- Understand the integration in the Pentaho Business Analytics analys

Course Prerequisites

There are no Pentaho Training prerequisites for this course. This course is designed for students with at least two years of experience with SQL and relational database design/implementation.

Course Outline

Day 1

Module	Est. Duration (hours)
Pentaho Data Integration Overview Presents the purpose, capabilities, and history of Pentaho Data Integration.	3
Introduction to the Training Data and Platform Installs and describes the software and data used in the course.	1
Inputs and Outputs Explores the techniques for retrieving and outputting data within transformations.	3

Day 2

Module	Est. Duration (hours)
Look-ups and Field Transformations Provides hands-on experience with the techniques for data enrichment by performing look-ups, joining various sources of data, and transforming individual fields during transformations.	3
Set and Pivot Transformations Builds on the Look-ups and Field Transformations module by exploring transformation techniques for sorting and manipulating sets of data.	3

Day 3

Module	Est. Duration (hours)
Jobs and Advanced Job Concepts Teaches the techniques for creating jobs that orchestrate transformations as ETL workflows.	3

XML and Web Services Explores using web services to retrieve data and the use of XML as input sources and output destinations.	2
JavaScript and Transformations Teaches the use of JavaScript in transformations.	1
Building Portable Transformations and Jobs Presents techniques for and principles of authoring more portable transformations.	1

Day 4

Module	Est. Duration (hours)
ETL Patterns Discusses the use of common ETL patterns to accelerate transformation authoring.	2
Logging and Error Handling Presents techniques for detecting and handling errors.	2
Performance Tuning Explores topics related to building high performing transformations.	2

Pentaho Report Design Techniques

Course Information

Course No	Audience	Delivery Mode	Duration
RPT1175W	Report Authors	Web	12 hrs/4 days

Course Benefits

Reporting needs vary from simple tabular data to financial statements to highly interactive reports. This course teaches the report design techniques to meet almost any reporting need. The course begins with a session that will help users create and publish their first report in less than two hours. The next three sessions build upon that foundation and teach report parameterization, design techniques with sub reports, report functions and calculations, and conditional formatting.

Who Should Attend

This course is designed for report authors and designers with an understanding of SQL and relational database concepts.

Learning Objectives

At the completion of this course, you should be able to:

- Understand the basic architecture and tools of Pentaho Reporting and the Pentaho BI Platform

- Author complex and dynamic reports using the Pentaho Report Designer
- Use the Report Designer to parameterize reports
- Construct reports against several different data sources
- Use hyperlinks within reports to build a network of reports
- Employ calculations and grouping techniques within a report
- Include charts and sub reports in reports
- Create a simple dashboard using the Pentaho dashboard builder

Course Prerequisites

There are no Pentaho Training prerequisites for this course. The course is designed for students with an understanding of SQL and relational database. Basic knowledge of web-applications is also suggested.

Course Outline

Day 1

Session	Est. Duration (hours)
Getting Started Explores the foundational skills involved in designing and publishing reports with Pentaho Report Designer and the Pentaho BI Platform. A detailed demonstration of the features of the Pentaho User Console. Connecting to various Data Sources. Pulling data fields onto the report, adding lines, headings, column titles, and other cosmetic enhancements.	3

Day 2

Session	Est. Duration (hours)
Designing Reports Teaches the skills to design high fidelity reports with a variety of charts, hyper linking, sub reports, and bands using the Pentaho Report Designer. Creating a report with multiple report objects and using multiple queries and multiple report objects to achieve a “dashboard look” for your report.	3

Day 3

Session	Est. Duration (hours)
Parameterizing Reports Introduces the use of Pentaho Report Designer to create parameterized reports, including radio buttons, drop downs, date calendars and tabs. Publishing the report to the Solution Directory so it can be viewed within the Pentaho User Console.	3

Day 4

Session	Est. Duration (hours)
Authoring Dynamic Reports	3

Uses functions, calculations, and style expressions to design dynamic reports that include traffic lighting and conditional formatting. Creating a simple dashboard using the Pentaho dashboard designer.	