

Course Catalog —Customers

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Solutions

Supply Management
Integrated Business Planning
Supply Planning
Supply Analytics
Revenue Management
Demand Planning
Retail

 Solutions
o9solutions.com

Supply Management

Basics of Supply Chain



60 mins

In this course, participants will be shown how to identify the different stages involved in a supply chain function of any industry, such as Manufacturing, Transportation or

Shipping, Production, and Distribution.

o9 Knowledge Masters in Supply Chain Management



373 mins

o9 Knowledge Masters in Supply Chain Management will enable you to develop key skills and expertise in multiple aspects of the supply chain. The program focuses on the fundamentals of the Supply Chain and concepts related to Logistics, Transportation, and Warehousing.

It also provides an understanding of Supply Chain Planning Processes, Risk Management, Analytics, and Reporting Techniques that are being used across multiple industries. You will learn how various cutting-edge technologies optimize the digital supply chain.

Supply Management Integrated Business Planning

o9 Platform Functional Overview

    340 mins

This course explains how the o9 platform is relevant in the supply chain planning domain. The program will help you identify the key differentiators and provide you with an overview of navigating the Web UI,

Excel UI, and Mobile UI. You will also be able to identify the benefits of using o9 in different planning roles, including Demand Planner, Supply Planner, and S&OP Planner.

Art of the Possible (AOTP) Functional Class

    685 mins

This course will provide you with a complete overview of all the three user interfaces (Web, Connected Excel, and Mobile), featuring an in-depth breakdown of the following:

1. Introduction to digital transformation and o9
2. Basic navigation
3. Demand planning use cases
4. Supply planning use cases
5. Control tower and IBP use cases

AOTP Retail Functional Class

    600 mins

In this program, you will learn about the o9 Retail Platform. This program introduces you to retail and wholesale workspaces and functionalities developed for o9 Customers. You will understand the process of Merchandise Financial Planning, Open-to-Buy

Management, Assortment Planning, and the activities of Forecasting and Replenishment in a retail context. Through interactive simulations, you can explore Allocation Planning capabilities through use cases.

Art of the Possible (AOTP) Workflows

    210 mins

In this program, you will learn the Art of the Possible (AOTP) Workflows.

The course covers the following:

- UI Navigation
- Flex Capacity
- NPI Initiative Planning
- Post Game Analysis
- Scenario Comparison
- Integrated Business Planning

Supply Management

Supply Planning

Supply Chain Planning — Overview

    270 mins

In this course, you will learn the basic concepts of the Supply Chain Solver on the o9 platform. The three modules aim to answer the following questions:

- What are the Fulfillment and Process Models in a supply chain?
- What are the core components involved in supply chain planning?
- What do you need to configure as a prerequisite in the o9 platform to use the Supply Chain Solver effectively?

Supply Planning Reference Product R2022 — Master Planner

    555 mins

This Certification Program enables you to learn about Master Planner workflows of o9's Supply Planning Reference Product. You will learn the strategy behind the design of this Reference Product, get a process deep dive and understand the overall data flow.

and their impact on the Supply Chain Solver runs are mentioned. An overview of various Plan Outputs is also given.

Provision for hands-on activity has been given in multiple modules. The Files section under this Program contains the relevant dataset and configuration files that can be used to perform the hands-on activities using Tenants. Please contact your o9 PoC for tenant access. "

This Program provides a detailed explanation of how to deal with Plan Inputs Data at various levels from the UI screens. Important Plan Parameters

Reference Product — Multi-Echelon Inventory Optimization-MEIO R2020.09

    330 mins

Multi-echelon inventory optimization (MEIO) balances inventories across the entire supply chain network, taking into account the interdependencies between echelons. Organizations that go beyond single-echelon inventory optimization (IO) offer highly competitive service levels and see a

reduction in—or elimination of—stockouts.

The MEIO Certification Program enables you to get an insight into the MEIO Reference Product, know MEIO as a tool, its core capabilities, and its benefits.

Supply Management

Supply Planning

What's NEW in MEIO Reference Product R2020.12

    130 mins

This program highlights the new features that have been implemented as part of the R2020.12 release of the MEIO Reference Product. You will learn about these new features in concepts such as:

- Storage constraint
- WMAPE
- Procurement lead

What's NEW in MEIO Reference Product R2021.03

    52 mins

In this course, you will learn the enhancements made as part of R2021.03 release of the MEIO Reference Product. The major upgrades are:

- Support for additional probability distributions for calculation of inventory numbers
- Advanced probability distributions selection criteria—three parameters based
- Segmentation and Service Level Assignment—demand volume based

What's NEW in MEIO Reference Product R2021.07

    90 mins

Practice the 2021.07 version of the MEIO Product using the config JSON, test cases, and the dataset. Refer to the Implementation Guide to learn about the Product.

Control Tower R2020.12

    505 mins

This program covers the concepts, workflows, and demos related to Control Tower R2020.12 Reference Product. In this program, you will learn about the following:

- Overview of Control Tower
- Transactional Model
- Forecast Netting
- PO Alert
- STO Alert
- Inventory Alert
- Inventory Rebalancing
- Financial Modeling
- Scenario Comparison
- Implementation Blueprint

Supply Management

Supply Planning

What's NEW in Control Tower Reference Product R2021.03

    98 mins

In this course, you will learn about the new features and enhancements that have been made as part of the R2021.03 release of the Control Tower Reference Product. The key release workflows include:

- Exceptions Planning
- Scenario Comparison and Merge
- Procurement Planning.

What's NEW in Control Tower Reference Product R2021.07

    83 mins

This program discusses the improvements to the existing capabilities of the Control Tower Reference Product R2021.07, these include:

- Common Transactional Model
- Exceptions Planning

- Performance — Create Network, Run Time Benchmarking, Alternate and Component Substitution
- Common Financial Model.

Also, the course covers new Beta capabilities, like:

- Alerts & Event Management
- WIP Supportability.

Demand netting overview

    30 mins

In this course, you will learn the basics of Demand Netting.

Pineapple Computers— Case Study

    480 mins

This case study enables you to build a Model from scratch, configure the Solver and implement some of the Supply Planning concepts such

as Pegging, Lead Times, Capacity Constraints, maintaining Safety Stock and Lot Sizes.

Supply Management

Supply Analytics

Procurement Analytics Reference Product R2021.07

    95 mins

Procurement analytics is the process of collecting and analyzing procurement data to form insights and aid effective business decision-making. This program covers the following:

- Major Categories of Supply Chain Analytics
- Supply Chain Assumptions — Observed & Predicted
- Key Inputs & Outputs of Procurement Analytics
- Demo of the Procurement Analytics Dashboard

Revenue Management

Demand Planning

o9 Knowledge Masters in Demand Planning

    235 mins

o9 Knowledge Masters in Demand Planning will help you to understand Demand Planning concepts and the application of forecasting solutions in complex business scenarios.

The program covers associated parameters that will help optimize a demand forecast and improve Supply Chain Performance and further delves into the usage of cutting-edge technologies like AI, Machine Learning, and Deep Learning-based Models to help planners create a reliable Demand Forecast Model.

After completing this program, participants will be able to:

- Formulate an ideal Demand Planning approach based on your business scenario
- Estimate a Demand Function by analyzing the dependents
- Arrive at a Consensus Forecast from within your organization
- Tune the Forecast further using Machine Learning and Deep Learning Models
- Enable Demand Supply Integration (DSI) to exhibit Demand Planning Excellence

Demand Planning 101 Series

    40 mins

This is a series of short videos to familiarize you with Demand Planning concepts.

Reference Product — Demand Planning R2020.09

    960 mins

This Certification Program teaches you about our Demand Planning Reference Product. You will get to know about the strategy behind the design of this Reference Product, get a process deep dive, understand multiple planning concepts and the key capabilities. The program also gives an insight into the integration approach. In addition, this program provides

you with an overview of exercises designed to understand different scenarios of the Demand Planning Reference Product. Important aspects related to the System Stat and Segmentation will also be explained.

Revenue Management

Demand Planning

What's NEW in Demand Planning Reference Product R2020.12

    260 mins

This program deals with the new features that have been implemented as part of the R2020.12 release of the Demand Planning Reference Product. You will learn the new features in concepts such as:

- Segmentation
- NPI
- Trade Spends
- Online Meetings

What's NEW in Demand Planning Reference Product R2021.03

    44 mins

In this course, you will learn about the new features that have been implemented as part of the R2021.03 release of the Demand Planning Reference Product. You will also learn the Driver Based ML Forecasting Steps. These features include:

- Stat Workflow
- Version Comparison
- Bug fixes and performance improvements in online meetings

What's NEW in Demand Planning Reference Product R2021.07

    75 mins

In the Demand Planning Reference Product R2021.07 course, the key highlights are:

- Driver Based Forecast using o9Predict.ai
- Consensus Forecast using multiple forecast measures

- Master Data Maintenance from User Interface
- Improved Logic in Rules-Based Forecast

Revenue Management

Retail

Retail Math and Performance Metrics

    63 mins

Retail Math and Performance Metrics is an ideal program to learn the fundamental principles and skills necessary to analyze the pricing strategies commonly practiced by retail merchandisers in their daily jobs.

You will learn commonly used performance metrics including Mark-up, turnover, and margin calculations, used to measure retail performance at an individual item, category, or company level.

The core focus is on demonstrating how to apply Retail Math formulas to a specific merchandising situation. You will be solving a bunch of merchandising problem statements for a thorough understanding of the Retail industry.

There is a test at the end of this program, designed to check the knowledge you gained on these basic mathematical principles.

Retail Basics

    53 mins

This Program introduces you to:

- What is retail?
- What is retail supply chain?
- What is retail planning?

o9 Platform/ Technology

Data Science with Python

o9 Platform Architecture

o9 Platform Modeling

Data Science

Integration

Supply Chain Solver

o9 Solutions

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o9 Platform Architecture

o9 Platform Architecture

    15 mins

This module provides a high-level overview of how all the components work and communicate with each other, all of which forms the architecture of the o9 platform.

o9 Platform Architecture — About Live Server

    24 mins

In this session, you will get a high-level insight into the components of the :o9 platform architecture, with more focus on Live Server or GraphCube Server.

o9 Platform Modeling

o9 Platform Technical Configuration — Level I

    538 mins

This Learning Program gives an insight into the building blocks of the o9 Platform, i.e., the backend, front-end/ presentation layer, and simple business logics. You will learn about o9's proprietary GraphCube Server or Live Server that is our database, and the model elements that stores the data. The Program will help you understand how to

create the Model components, load the data into the o9 Platform, create Rules using Scopes, create Active Rules, configure the UI elements, create Action Buttons to be used by the end-user, and know the use of some of the default workspaces such as Debugging and Deployment Workspaces.

o9 Platform Technical Configuration — Level II

    367 mins

This Learning Program focuses on writing complex business logics using more scope types. You will understand how to use other scope types and learn to write simple plugins using R or Python. You will implement Cartesian Scope, Spread Scope, and Recurrence Scope, and explore Action Buttons by adding more field binding types. You will

explore some advanced concepts such as Plugins, using JavaScript and Web API connections, working with Edges and Measures in Graph Model, and many more. These concepts will give you more insight into further configuring your Model.

o9 Platform Modeling

IBPL for Beginners

    180 mins

This Integrated Business Planning Language (IBPL) beginners course gives you an insight into how you can use IBPL to query your member data, manage your members, understand the concepts of graphs and

relationships, create rules, and implement data security.

Action Buttons — Basic Fieldbinding Types

    120 mins

In this course, you will learn about the functionality of various Fieldbinding Types that are categorized as Basic Fieldbindings.

Action Buttons — DataSource Fieldbinding Types

    30 mins

In this course, you will learn about the functionality of various Fieldbinding Types that are categorized as Basic Fieldbindings.

Action Buttons — Miscellaneous Moustache Templates

    30 mins

In this course, you will learn about the functionality of various Fieldbinding Types that are categorized as Miscellaneous Mustache templates.

Action Buttons — Parent Attribute Fieldbinding Types

    30 mins

In this course, you will learn about the functionality of various Fieldbinding Types that are categorized as Parent-Attribute Fieldbindings.

o9 Platform Modeling

LS Modelling Best Practices — Model Construction

    340 mins

This program deals with some best practices related to modeling constructs and also some dos and don'ts that you should keep in mind while designing a model.

Parameterized Procedures

    20 mins

In this module, you will learn how to create Parameterized Procedure and the ideas behind its creation of it. The module discusses use cases demonstrating the use of Parameterized Procedures.

Report Designer Widgets

    200 mins

This course provides an overview of the following widgets:

- 1. Pivot
- 2. Bubble Chart
- 3. Line Chart
- 4. Network
- 5. NLP Report
- 6. Pulse
- 7. KPI
- 8. Calendar
- 9. Task
- 10. Master Data
- 11. NLP Analytics
- 12. Geo Map
- 13. Indented Grid
- 14. Scenario Manager
- 15. Where Used

Data Science and Analytics

Beginners Guide to Forecasting Using R





 150 mins

This course introduces you to the foundations of forecasting methods using time-series graphics and basic forecasting methods that can aid learners in their daily forecasting

activities. The course also explores a few established methods used to obtain reliable judgmental forecasts.

Data Science with Python

Introduction to Data Science using Python (DSP00)

    4 mins

This short video introduces learners to the importance of Data Science and how the o9 Platform uses the mechanism of Data Science for better forecasting capabilities and data analysis.

Through a series of programs and hands-on exercises, the learners will skill themselves on how to apply Data Science and its various techniques to predict accurately.

Statistics Essentials (DSP01)

    36 mins

Statistics forms the basis of Data Science and allows us to "recognize, analyze and form insights." This self-paced program delves into the basics of statistics, analysis techniques, and hypothesis testing on real-world business scenarios to analyze and conclude insights.

After completing this program, you will understand the fundamentals of statistics and probability, Understand the importance of statistics in Data Science, Differentiate between descriptive and inferential statistics, Understand the various statistical analysis, and Understand hypothesis testing and its types.

Python Fundamentals (DSP02)

    136 mins

Learners who are new to programming often have difficulty figuring out where they should start. This program explores the fundamentals of Python and introduces the Python programming environment.

This program will answer questions such as

- Why is Python popular?
- Is it easy to learn Python programming?
- How to set up Python Environment on my system?

Data Science with Python

Data Science Essentials (DSP03)

    33 mins

A ground-breaking study in 2013 reported that 90% of the entirety of the world’s data had been created within the previous two years. In 2020, it was estimated that we had an astounding 44 zettabytes of data. What do we do with all this data? How do we make it worthwhile to us? What are its real-world applications? These questions are the domain of data science.

This is an introductory program on Data Science, which answers these questions and more. This is an ideal starting point for anyone who is interested in the area of Data Science.

To enable screen reader support, press ⌘+Option+Z To learn about keyboard shortcuts, press ⌘/

Machine Learning and Artificial Intelligence: Essentials (DSP04)

    31 mins

This entry-level program on machine learning prepares you to understand the concepts and identify the skills required and tools used in machine learning practices. You will learn

machine learning concepts, including the foundations, applicability, and limitations, and an exploration of implementation and use.

Mastering Python Programming (DSP05)

    450 mins

This is an ideal program for novice Python programmers who want to acquire advanced Python programming skills. It helps you explore advanced concepts with hands-on labs.

This program will help you to:

- Deep dive into Python structures (Lists, Tuples, Sets, Dictionaries)
- Master the rich set of Python Module and Packages in Python
- Work with File Handling in Python
- Understand the Object-Oriented Programming in Python
- Working with Regular Expression in Python

Data Science with Python

Data Science with Python Programming (DSP06)

    340 mins

In this program, you will learn how Python is deployed for Data Science and work with different libraries (Numpy, Pandas, Matplotlib, Seaborn, etc.) for Data Cleaning, Data Analysis, Data Visualization, advanced numerical analysis, etc.

This program will help you to:

- Perform data analysis using NumPy
- Perform data analysis using Pandas
- Visualize Data using Matplotlib
- Define Data Visualization using Seaborn

Applying Data Science Techniques using Machine Learning with Python (DSP07)

    555 mins

This program talks about the application of Data Science techniques using Machine Learning with Python. You will learn about the purpose of Machine Learning and where it applies to the real world. Additionally, you will get an overview of Machine Learning concepts such as supervised, unsupervised, reinforcement learning, model evaluation, and Machine Learning algorithms.

This program will help you to:

- Getting Started Machine Learning with Python
- Learn Data Preprocessing in Machine Learning
- Define Classification in Machine Learning
- Define Regression in Machine Learning
- Understand Anomaly Detection in Machine Learning
- Association rules in Machine Learning
- Define Clustering in Machine Learning
- Time Series in Machine Learning

Data Science with Python

Introduction to Python and PySpark Plugins (DSP08)





 95 mins

This program introduces you to the Python and PySpark plugins, which allow you to run Python scripts and leverage inbuilt Spark features on the o9 Platform.

This program will help you to:

- What are Python Plugins and their Real-world application
- The architecture behind the Python plugin

- How to configure and run the Python plugins on the o9 platform?
- How to troubleshoot python plugin issues?
- Discuss the Dynamic Arguments
- A brief overview of Machine Learning
- How to configure and run the PySpark plugins on the o9 platform?
- How to setup and run Anaconda to execute different packages

Python and PySpark Plugin Readiness and Troubleshooting (DSP09)





 145 mins

This program enables you to ensure the readiness of Python and PySpark plugins for the o9 Platform and troubleshoot the plugin issues as they arise.

This program will help you to:

- Pre-requisites required for this course
- Local Setup and Debugging
- Software Guidance & Maintenance
- Python Plugins on the o9 platform
- Debugging Plugin Errors
- Python Plugins Advanced Usage for Performance
- PySpark Plugins on the o9 platform

Data Science with Python

Python Plugin Performance Optimization (DSP10)

    85 mins

This program deals with optimizing Python plugins for improved performance while dealing with complex data sets. An overview of Python Programming, architecture, and benefits with respect to the o9 Platform are covered. You will also learn to configure a simple Python Plugin and understand the debugging process.

The course covers the following:

- Introduction
- Plugin Execution
- Code Execution Time
- Tuning Options
- Slice Bucket Count
- Spark Profile Config
- Power User Settings
- Auto Resource Estimate
- Coding Best Practices

Introduction to AI Predict Plugins (DSP11)

    70 mins

The Python plugin allows you to run python scripts on the o9 Platform. It acts like a bridge between the GraphCube server and the Hadoop eco system on which the python scripts are executed.

order of millions and billions rows of data. The o9 Platform provides an easy way to provide the meta data configuration option on platform UI and provide any scripts for configuration to run on the Hadoop cluster at scale.

One of the preferred languages of Data Scientists is python. The data size for AI/ML is huge and is in the

In this program you will learn how to use the Predict Plugin.

Introduction to JHub (DSP12)

    60 mins

In this program, you will learn the use of Jupyter Notebooks, Conda Libraries, Workflows for updating Plugins in Packages, and how to use Git to integrate with your organization.

Data Science with Python

Segmentation, Artificial Intelligence and Machine Learning Clustering (DSP13)

    95 mins

This program will enable you to use AI & ML clustering to derive detailed cluster membership for each intersection and to derive feature details from a member level using the o9 Platform.

The course covers the following:

- Understand AI/ML Clustering
- Review use cases on Store Clustering and Assortment Planning
- Preview Demos on sub-segmentation capabilities and AI Clustering

AI Store Clustering Functional Guide (DSP14)

    120 mins

This functional guide covers the functional design for the AI Store Clustering Module. The guide lists the tool design, functions, and features to transform the business requirements of a client into functional requirements.

Data Science with Python Case Studies (DSP15)

    130 mins

In this program, you will go through three case studies. Two of the case studies have already been solved for you to give you an idea of how to approach these and the third one is provided as an assignment for you to gauge your skills.

- Basic Exploratory Data Analysis using Python
- Forecasting with Time Series using Python

Data Science with Python

Profiling and Fine Tuning in SCS



120 mins

The overall objective of this course is to provide a good understanding of performance considerations to be done in solver. The course will give a good handle on these areas

- Profiling solver run times for identifying bottlenecks
- Understanding solver traces and how to optimize solver behaviour
- Performance tuning parameters in the solver configuration

Integration

Data Integration — Introduction

    70 mins

In this course, you will get introduced to some integration concepts and their related processes. The videos will cover the following:

- Data flow & integration overview
- What data do we need?
- How do we get data?
- Integration process overview
- Defining transformations

Hadoop Hive Overview

    100 mins

In this course, you will learn all about:

- Overview of Hadoop
- HDFS Architecture
- Data Replication
- Common Hadoop Tools
- Important Hadoop Ecosystem Tools Used In ABC Project
- Apache Spark
- Airflow
- ABC Project
- Demos

Reference Product Integration R2020.12

    90 mins

The Reference Product Integration Program gives a high-level overview of SSIS integration solutions developed for Supply Planning, Demand Planning, and Multi-echelon Inventory Optimization Reference Model. This solution can be taken as a starting point for integration batch

run using the Reference Model and can be further customized by the implementation team.

This program also introduces Integration Database Management—Excel Config and the Time generation Utility.

Integration

What's NEW in Reference Model Integration R2022.04



30 mins

This program revolves around additional features and updates that were added as part of the o9 Reference Model Integration Product R2022.04. This is an ideal program to learn the technique of extraction, transformation, and loading (ETL) with SQL Server Integration Services (SSIS) and the data integration mechanism used at o9. You can go through this program to upgrade your skills to align with the latest o9 Reference Model Integration

Product (R2022.04), but for doing so you need a vivid knowledge of the previous o9 Reference Model Integration Product (R2021.10). Required prerequisites: - General understanding of cloud technology - Must complete the SSIS Essentials Learning Path - Must have attended - o9 Enterprise Modeler Technical Workshop - Must complete the program - Integrations Using SSIS & Reference Product Integration R2021.10

Supply Chain Solver

Beginner's Guide to Supply Chain Solver (SCS)

    200 mins

The primary goal of the Supply Chain Solver (SCS) is to make a demand-supply match by adhering to the business priorities/rules such as Demand/Customer Priorities, Inventory Policies, and Demand Fulfillment. The secondary goals include:

- Excess inventory to be minimized
- Costs to be reduced
- Product time to market to be improved

- Agility and resilience to be enhanced

The Solver works by taking inputs and processing them to generate a feasible plan or output. In this course, you will learn the basics of:

- Supply Chain Solver Inputs
- Supply Chain Solver Algorithms
- Supply Chain Solver Outputs

SCS — Configuring an Instance

    90 mins

This two-part video shows participants the various parameters required to configure a Solver instance.

Supply Chain Solver

SCS — Use Cases

    30 mins

This course showcases 3-4 use cases for configuring Supply Chain Solver.

SCS Debugging Series

    30 mins

This module includes short videos on multiple features available for users when Debugging in SCS. The videos available in this series are:

- How to create SCS TFS?
- Solver timings Increased
- Output changed on Porting to New Environment
- How to validate SCS Plans?
- How to read logs?

SCS Features and Capabilities

    60 mins

The Supply Chain Solver (SCS) is the flagship feature of the o9 platform. This module provides an overview of the features and capabilities of the SCS.

SCS Series

    15 mins

This series will showcase short videos on SCS features, giving you a snippet of how to use these features in the Solver. This module includes videos on SCS Differentiators, Supply Code, and Shelf Life features.

For more details please contact
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