

Results Analytics Essentials

R2016x



3DEXPERIENCE



About this Course

Course objectives

Upon completion of this course you will be able to:

- ▶ Initialize an analytics case
- ▶ Conduct trade-off analyses
- ▶ Select the best alternative

Targeted audience

This course is intended for the following roles:

- ▶ Simulation Process Method Developer
- ▶ Results Data Analyst

Prerequisites

None



1 day

Day 1

- ▶ Lecture 1 Overview of Results Analytics
- ▶ Lecture 2 Initializing an Analytics Case
- ▶ Workshop 1 Car Purchase Selection – Part 1

- ▶ Lecture 3 Defining Requirements
- ▶ Workshop 2 Car Purchase Selection – Part 2

- ▶ Lecture 4 Conducting Trade-Offs
- ▶ Workshop 3 Car Purchase Selection – Part 3

- ▶ Lecture 5 Predictions – Finding Better Options
- ▶ Workshop 4 Car Purchase Selection – Part 4

- ▶ Lecture 6 Selecting and Recommending Best Alternative
- ▶ Workshop 5 Car Purchase Selection – Part 5

- ▶ Lecture 7 Managing Your Analytics Case

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- > Full Schedule

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Revision Status

Lesson 1	3/16	Updated for R2016x
Lesson 2	3/16	Updated for R2016x
Lesson 3	3/16	Updated for R2016x
Lesson 4	3/16	Updated for R2016x
Lesson 5	3/16	Updated for R2016x
Lesson 6	3/16	Updated for R2016x
Lesson 7	3/16	Updated for R2016x
Workshop 1	3/16	Updated for R2016x
Workshop 2	3/16	Updated for R2016x
Workshop 3	3/16	Updated for R2016x
Workshop 4	3/16	Updated for R2016x
Workshop 5	3/16	Updated for R2016x

Lecture 1: Overview of Results Analytics

Lesson content:

- ▶ Motivating Problem
- ▶ User Challenges
- ▶ Industry Challenges
- ▶ What is Results Analytics?
- ▶ Virtual + Real Process Apps Family
- ▶ What is Trade-off Analysis?
- ▶ Why is Trade-off Analysis Needed?
- ▶ SOM (Advanced Analytics) for Pattern Extraction
- ▶ Ranking and Scoring
- ▶ Collaborative Decision
- ▶ The Seven Steps from Data to Decision



45 minutes

Lecture 2: Initializing an Analytics Case

Lesson content:

- ▶ Business Roles
- ▶ Analytics Case
- ▶ Accessing Results Analytics
- ▶ Results Analytics in 3D Dashboard
- ▶ Results Analytics Home
- ▶ Supported Files Types
- ▶ ZIP File Contents
- ▶ Supported Data Types
- ▶ Merging Multiple Data Sets



30 minutes

Workshop 1: Car Purchase Selection – Part 1

In this workshop, you will get familiar with the Results Analytics app in the **3DEXPERIENCE** Platform and learn how to select a new car for your purchase using the app.

Background:

People choose cars based on factors such as price, functionality, safety, fuel economy as well as personal preferences such as looks, color, performance, and styling.

The selection of a vehicle is obviously driven by circumstances at times. A long-distance commuter looks for a car with good fuel economy. Someone on a tight budget may purchase based on price.

Today, we will try to make a rational decision on our vehicle purchase selection by *selecting a car that gives the best value for money*.

After completion of this workshop, you will be able to:

- a. Access the Results Analytics app
- b. Navigate through the **3DEXPERIENCE** Platform interface
- c. Create an Analytics Case



5 minutes

