OPIM INNOVATE TECH KIT

ANALYTIC TRACK

BEGINNER | INTERMEDIATE | ADVANCED

SAS JMP

Intro to SAS JMP
60 mins

JMP from the SAS Institute was developed to take advantage of the graphical user interface introduced by Apple Macintosh. Since its release, JMP has grown from a single product into a broad family of statistical discovery tools. This tech kit provides an overview of the JMP interface, displaying its interactive nature.

Data in SAS JMP
60 mins

JMP is designed to help users tackle both routine and challenging statistical problems. This tech kit explores comparing populations and samples, generating sample data, creating histograms and outlier box plots, analyzing measures of spread, variability, and shape, and using hypothesis, mean, and T-testing.

Intro to Data Modeling
60 mins

This tech kit provides an introduction to the principles of data modeling in JMP. It places an emphasis on the steps required prior to completion of effective modeling and the importance of the business context the modeling seeks to address. It additionally explores supervised and unsupervised modeling.

ENTERPRISE MINER

Intro to Enterprise Miner
60 mins

Enterprise Miner from the SAS Institute was developed to streamline data mining processes and facilitate the creation of accurate predictive and descriptive models. This tech kit provides an introduction to the interface. It outlines the steps to begin a project, define a library, add a datasource and create a diagram.

Leveraging Enterprise Miner
60 mins

This tech kit builds upon the precursory material presented in the Beginner tech kit. It guides users in exploring predictive analytics using Enterprise Miner. Specifically, both data mining and predictive modeling are examined.

Turn Text into Insight
60 mins

Expanding upon the introduction to Enterprise Miner provided in the first two tech kits, this tech kit explores text analysis using Enterprise Miner. Specifically, it guides users as they leverage the software to transform text into valuable data in a format that can be analyzed to generate insight.

SPLUNK

Introducing Splunk
60 mins

Over the last decade, there has been exponential growth in machine data, due in part to the rise of IoT devices. Now, in the "Big Data" era, Splunk is used for searching, monitoring, analyzing, and visualizing machine-generated big data. This tech kit provides an overview of the Splunk interface and reviews Splunk Fundamentals 1 training.

Generating Dashboard Visuals
60 mins

Building upon Splunk Beginner, this tech kit provides an avenue to test and further deepen skills gained. With an emphasis on statistical analysis, it reviews basic searching commands and principles, using fields in searching, leveraging transforming commands, and aggregating data visualizations to create dashboards.

Power of Statistical Analysis
60 mins

Splunk Advanced examines more advanced statistical analysis concepts. These include outlier detection principles, correlation matrices, aggregate functions, T-tests, 3D bubble charts, macros, the eval command, data models, and more. It is designed as a review of the Splunk Fundamentals 2 training.

TABLEAU

Introducing Tableau
60 mins

Data visualization is the process of representing data in a visual context. Tableau provides an interactive data visualization software that specializes in techniques for analyzing a variety of data types. This tech kit provides a fundamental overview of the Tableau interface as well as an introduction to creating basic visualizations.

Tableau Driving Business Value
60 mins

Expanding upon the fundamental introduction to Tableau provided in the Beginner tech kit, this tech kit explores leveraging Tableau to generate valuable business insight. It explores a number of capabilities including uploading data sets, creating calculated fields, filtering data and creating dashboards.

Mastering Data Analysis
60 mins

Tableau Advanced builds upon the concepts explored in the previous tech kits; it provides step-by-step examples and the opportunity to complete analysis using one's own, independent data set. It examines "cleaning" data sets, using functions, integrating Level of Detail (LOD) expressions and using calculations.

R STUDIO PROGRAMMING

Introducing R Programming
60 mins

R is a language and environment for statistical computing and graphics. It is both widely used and open-source, providing great flexibility for data analysis. This tech kit provides an overview of

Exploring R Capabilities
60 mins

As a result of R's status as an open-source language and software environment, a plethora of R learning resources are available for users. This makes R an attractive language to learn and leverage.

Recognizing the Versatility of R
60 mins

Many useful R functions come in packages: free libraries of code written by R's user community. In addition to built-in packages, over 5,000 packages are available for download. This tech kit explores importing, tidying, summarizing