



# Splunk for Analytics and Data Science

This course, delivered over 3 virtual days, is for users who want to attain operational intelligence level 4, (business insights) and covers implementing analytics and data science projects using Splunk's statistics, machine learning, built-in and custom visualization capabilities.

## Course Topics

- Analytics Framework
- Exploratory Data Analysis
- Machine Learning
- Using Algorithms to Build Models
- Market Segmentation
- Transactional Analysis
- Anomaly Detection
- Estimation and Prediction
- Classification

## Course Prerequisites

- Splunk Fundamentals 1
- Splunk Fundamentals 2
- **OR equivalent Splunk experience**

## Class Format

Instructor-led lecture with labs, delivered via virtual classroom or at your site.

## Course Objectives

### Module 1 – Analytics Framework

- Define terms related to analytics and data science
- Describe the framework for multi-departmental analytics projects
- Identify analytics project best practices
- Identify common use cases

### Module 2 – Exploratory Data Analysis

- Define exploratory data analysis
- Describe Splunk exploratory data analysis solutions

### Module 3 – Machine Learning Workflow

- Define some concepts and terms associated with machine learning
- Describe the machine learning workflow
- Split data for training and testing models
- Fit and apply models in Splunk
- Use Machine Learning Toolkit Showcases and Assistants

### Module 4– Using Algorithms to Build Models

- Use Machine Learning Toolkit commands and features
- Use and compare algorithms
- Refine models

### Module 5– Market Segmentation and Transactional Analysis

- Describe market segmentation and transactional analysis
- Define use cases and solutions

### Module 6 – Anomaly Detection

- Define anomaly detection
- Identify anomaly detection use cases
- Describe Splunk anomaly detection solutions

### Module 7 – Estimation and Prediction

- Define estimation and prediction
- Identify estimation and prediction use cases
- Describe Splunk estimation and prediction Solutions

### Module 8 – Classification

- Define key classification terms
- Evaluate classifier results

## About Splunk Education

Splunk classes are designed for specific roles such as Splunk Administrator, Developer, User, Knowledge Manager, or Architect.

### Certification Tracks

Our certification tracks provide comprehensive education for Splunk customer and partner personnel according to their areas of responsibility.

To view all of Splunk Education's course offerings, or to register for a course, go to <http://www.splunk.com/goto/education>

To contact us, email [Education\\_AMER@splunk.com](mailto:Education_AMER@splunk.com)

## About Splunk

Splunk is software that indexes, manages and enables you to search data from any application, server or network device in real time.

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Splunk Inc.  
250 Brannan  
San Francisco, CA 94107  
866.GET.SPLUNK  
(866.438.7758)  
[sales@splunk.com](mailto:sales@splunk.com)  
[support@splunk.com](mailto:support@splunk.com)