Exploring and Analyzing Data with Splunk

Category: AI, Data & Analytics | **Vendor:** Splunk

Duration: 16.00 hours (2 days) **13.0 CPD Hours** **Rating:** ⭐ 4.6 (5,878 reviews)

Course Information

Delivery Format: Instructor Led - Online

Course Overview

This 9-hour course is for users who want to attain operational intelligence level 4, (business insights) and covers exploratory data analysis by using statistical tools and custom visualizations.

About This Course

This 9-hour course is for users who want to attain operational intelligence level 4, (business insights) and covers exploratory data analysis by using statistical tools and custom visualizations.

Prerequisites & Entry Requirements

General Prerequisites:

To be successful, students should have a solid understanding of the following courses:

- Intro to Splunk
- Using Fields (SUF)
- Scheduling Reports and Alerts
- Visualizations
- Working with Time (WWT)
- Statistical Processing (SSP)
- Comparing Values (SCV)
- Result Modification (SRM)
- Leveraging Lookups and Subsearches (LLS)
- Correlation Analysis (SCLAS)
- Search Under the Hood
- Intro to Knowledge Objects
- Creating Field Extractions (CFE)
- Search Optimization (SSO)

Learning Outcomes

Upon successful completion of this course, participants will be able to:

- Analytics Framework
- Exploring and visualizing data
- Cleaning and Preprocessing Data
- Numerical and String based clustering
- Data Correlation
- Meta Transactions
- Detecting Anomalies
- Forecasting

Detailed Course Outline

Topic 1 – What is Data Science

- Define terms related to analytics and data science
- Describe the analytics workflow
- Describe Artificial Intelligence and Machine Learning
- Examine common Machine Learning myths
- Describe Splunk’s Machine Learning tools

Topic 2 – Exploratory Data Analysis

- Use bin and makecontinuous to restructure and visualize data
- Examine field statistics with fieldsummary
- Transform fields with eval and fillnull
- Clean text with the rex and cleantext commands
- Solve Anscombe’s Quartet
- Apply boxplots and 3d scatterplots to visualize data

Topic 3 – Event Clustering

- Take a behavioral based approach to cluster data

- Cluster numerical fields using the kmeans command

- Cluster based of string similarity with the cluster command

- Find patterns in clusters

Topic 4– Correlations and Transactions

- Define correlation and co-occurrence

- Use SPL correlation commands

- Use the statistical tests from the Machine Learning Toolkit to correlate fields

- Use streamstats and chart commands to correlate data

Topic 5– Anomaly Detection

- Define Statistical Outliers

- Use Add-hoc methods of numerical anomaly detection

- Find numerical or categorical anomalies with the AnomalyDetection command

Topic 6 – Forecasting

- Define forecasting use cases

- Use the predict command to forecast future timeseries

Skills You Will Learn:

- Analytics Framework
- Exploring and visualizing data
- Cleaning and Preprocessing Data
- Numerical and String based clustering
- Data Correlation
- Meta Transactions
- Detecting Anomalies
- Forecasting

Frequently Asked Questions

Q: What delivery options are available for Exploring and Analyzing Data with Splunk?

We offer multiple delivery formats:

- Live Instructor-Led Classroom Online (Virtual/Live Online)
- Traditional Instructor-Led Classroom Training (ILT)
- On-site delivery at your offices anywhere in United Kingdom
- Private dedicated courses customized for your team

Q: How many CPD hours does this course provide?

The 2-day Exploring and Analyzing Data with Splunk course provides up to 13.0 CPD hours of structured learning. CPD certificates can be provided upon request.

Q: What is the duration of the Exploring and Analyzing Data with Splunk training?

The training takes place over 2 day(s), with each day lasting approximately 16.00 hours including breaks for lunch and refreshments.

Q: Do you provide corporate training for Exploring and Analyzing Data with Splunk?

Yes, we provide corporate training, dedicated training, and closed classes for Exploring and Analyzing Data with Splunk. Training can take place anywhere in United Kingdom including London, Manchester, Birmingham, Edinburgh, or live online allowing teams from across United Kingdom or internationally to attend.

Q: What related terms do people search for?

Popular related searches include: Exploring and Analyzing Data with Splunk, Data Science Analyst, EADS

Q: Why choose Nexus Human for Exploring and Analyzing Data with Splunk?

Nexus Human is recognized as one of the leading training providers. Our trainers have won multiple awards including:

- Small Firms Best Trainer Award
- National Training Partner of the Year (Ireland) - Multiple Years
- Global Top 30 Instructor Awards (2012, 2019, 2021)
- Tech Excellence Award Nominations
- Learning Performance Institute (LPI) External Training Provider Sponsor 2024

Q: Are there any discount codes available?

Yes! Use discount code **PENPAL5** when booking your Exploring and Analyzing Data with Splunk training. Please note that only one discount code can be used per booking and cannot be combined with other special offers.

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