

# Splunk Power User Fast Start

This course is for Splunk Power Users who want to become experts on the following Splunk topics:

## Working with Time:

for power users who want to become experts at using time in searches. Topics will focus on searching and formatting time in addition to using time commands and working with time zones.

## Statistical Processing:

to identify and use transforming commands and eval functions to calculate statistics on their data. Topics will cover data series types, primary transforming commands, mathematical and statistical eval functions, using eval as a function, and the rename and sort commands.

## Comparing Values:

to learn how to compare field values using eval functions and eval expressions. Topics will focus on using the comparison and conditional functions of the eval command, and using eval expressions with the field format and where commands

## Result Modification:

to use commands to manipulate output and normalize data. Topics will focus on specific commands for manipulating fields and field values, modifying result sets, and managing missing data. Additionally, students will learn how to use specific eval command functions to normalize fields and field values across multiple data sources.

## Correlation Analysis:

to learn how to calculate co-occurrence between fields and analyze data from multiple datasets. Topics will focus on the transaction, append, appendcols, union, and join commands.

## Creating Knowledge Objects:

to learn how to create knowledge objects for their search environment using the Splunk web interface. Topics will cover types of knowledge objects, the search-time operation sequence, and the processes for creating event types, workflow actions, tags, aliases, search macros, and calculated fields.

## Creating Field Extractions:

to learn about field extraction and the Field Extractor (FX) utility. Topics will cover when certain fields are extracted and how to use the FX to create regex and delimited field extractions.

## Data Models:

to learn how to create and accelerate data models. Topics will cover datasets, designing data models, using the Pivot editor, and accelerating data models.

## Kursinhalt

- Working with Time
- Statistical Processing
- Comparing Values
- Result Modification
- Correlation Analysis
- Creating Knowledge Objects
- Creating Field Extractions
- Data Models

## Voraussetzungen

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

- How Splunk works
- Creating search queries

Prerequisites can be obtained with free elearning :

- What is Splunk (SSC)
- Intro to Splunk (SSC)
- Using Fields (SSC)
- Visualizations (SSC)
- Intro to Knowledge Objects (SSC)
- Search Under the Hood (SSC)

## Kursziel

Certification: Splunk Core Certified Power User

Stand 10.03.2024

## Dieser Kurs im Web



Alle tagesaktuellen Informationen und Möglichkeiten zur Bestellung finden Sie unter dem folgenden Link: [www.experteach.at/go/SPUF](http://www.experteach.at/go/SPUF)

## Vormerkung

Sie können auf unserer Website einen Platz kostenlos und unverbindlich für 7 Tage reservieren. Dies geht auch telefonisch unter 06074 4868-0.

## Garantierte Kurstermine

Für Ihre Planungssicherheit bieten wir stets eine große Auswahl garantierter Kurstermine an.

## Ihr Kurs maßgeschneidert

Diesen Kurs können wir für Ihr Projekt exakt an Ihre Anforderungen anpassen.

Training		Preise zzgl. MwSt.
<b>Termine in Deutschland</b>	<b>4 Tage</b>	<b>€ 4.000,-</b>
<b>Online Training</b>	<b>4 Tage</b>	<b>€ 4.000,-</b>
<b>Termin/Kursort</b>	Kursprache Deutsch	
13.05.-16.05.24	Online	05.08.-08.08.24  Online
10.06.-13.06.24	München	09.09.-12.09.24  Online
10.06.-13.06.24	Hybrid	07.10.-10.10.24  Online
01.07.-04.07.24	Online	11.11.-14.11.24  Online

# Inhaltsverzeichnis

## Splunk Power User Fast Start

### Working with Time :

#### Module 1 - Searching with Time

Understand the \_time field and timestamps  
View and interact with the Event Timeline  
Use the earliest and latest time modifiers  
Use the bin command with the \_time field

#### Module 2 - Formatting Time

Use various date and time eval functions to format time

#### Module 3 - Using Time Commands

Use the timechart command  
Use the timewrap command

#### Module 4 - Working with Time Zones

Understand how time and timezones are represented in your data  
Determine the time zone of your server  
Use strftime to correct timezones in results

### Statistical Processing :

#### Module 1 - What is a Data Series

Introduce data series  
Explore the difference between single-series, multi-series, and time series data series

#### Module 2 - Transforming Data

Use the chart, timechart, top, rare, and stats commands to transform events into data tables

#### Module 3 - Manipulating Data with eval Command

Understand the eval command  
Explore and perform calculations using mathematical and statistical eval functions  
Perform calculations and concatenations on field values  
Use the eval command as a function with the stats command

#### Module 4 - Formatting Data

Use the rename command  
Use the sort command

### Comparing Values

#### Module 1 - Using eval to Compare

Understand the eval command  
Explain evaluation functions  
Identify and use comparison and conditional functions  
Use the fieldformat command to format field values

#### Module 2 - Filtering with where

Use the where command to filter results  
Use wildcards with the where command  
Filter fields with the information functions, isnull and isnotnull

### Result Modification

Module 1 - Manipulating Output

Convert a 2-D table into a flat table with the untable command  
Convert a flat table into a 2-D table with the xyseries command

#### Module 2 - Modifying Result Sets

Append data to search results with the appendpipe command  
Calculate event statistics with the eventstats command  
Calculate "streaming" statistics with the streamstats command  
Modify values to segregate events with the bin command

#### Module 3 - Managing Missing Data

Find missing and null values with the fillnull command

#### Module 4 - Modifying Field Values

Understand the eval command  
Use conversion and text eval functions to modify field values  
Reformat fields with the foreach command

#### Module 5 - Normalizing with eval

Normalize data with eval functions  
Identify eval functions to use for data and field normalization

### Correlation Analysis

#### Module 1 - Calculate Co-Occurrence Between Fields

Understand transactions  
Explore the transaction command

#### Module 2 - Analyze Multiple Data Sources

Understand subsearch  
Use the append, appendcols, union, and join commands to combine, analyze, and compare multiple data sources  
Creating Knowledge Objects

### Topic 1 – Knowledge Objects & Search-time Operations

Understand role of knowledge objects for enriching data  
Define search-time operation sequence

### Topic 2 – Creating Event Types

Define event types  
Create event types using three methods  
Tag event types  
Compare event types and reports

### Topic 3 – Creating Workflow Actions

Identify what are workflow actions  
Create a GET, POST, and search workflow action  
Test workflow actions

### Topic 4 – Creating Tags and Aliases

Describe field aliases and tags  
Create field aliases and tags  
• Search with field aliases and tags

### Topic 5 – Creating Search Macros

Explain search macros  
Create macros with and without arguments

Validate macro arguments  
Use and preview macros at search time  
Create and use nested macros  
Use macros with other knowledge objects

### Topic 6 – Creating Calculated Fields

Explain calculated fields  
Create a calculated field  
Use a calculated field in search

### Creating Field Extractions

#### Module 1 - Using the Field Extractor

Understand types of extracted fields and when they are extracted  
Explore the Splunk Web Field Extractor (FX)

#### Module 2 - Creating Regex Field Extractions

Identify basics of regular expressions (regex)  
Understand the regex field extraction workflow  
Edit regex for field extractions

#### Module 3 - Creating Delimited Field Extractions

Identify delimited field values in event data  
Understand the delimited field extraction workflow

### Data Models

#### Module 1 - Introducing Data Model Datasets

Understand data models  
Add event, search, and transaction datasets to data models  
Identify event object hierarchy and constraints  
Add fields based on eval expressions to transaction datasets

#### Module 2 - Designing Data Models

Create a data model  
Add root and child datasets to a data model  
Add fields to data models  
Test a data model  
Define permissions for a data model  
Upload/download a data model for backup and sharing

#### Module 3 - Creating a Pivot

Identify benefits of using Pivot  
Create and configure a Pivot  
Visualize a Pivot  
Save a Pivot  
Use Instant Pivot

### Access underlying search for Pivot

#### Module 4 - Accelerating Data Models

Understand the difference between ad-hoc and persistent data model acceleration  
Accelerate a data model  
Describe the role of tsidx files in data model acceleration  
Review considerations about data model acceleration

