



Enterprise Computing Solutions - Education Services

## TRAINING OFFERING

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**Sie erreichen uns hier**

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| CODE:       | LÄNGE:            | PREIS:    |
|-------------|-------------------|-----------|
| SPL_POWER-U | 32 Hours (4 Tage) | €4,000.00 |

## Description

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.

## Lernziel

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 obtain with free elearning :

What is Splunk (SSC) : [https://www.splunk.com/en\\_us/training/courses/what-is-splunk.html](https://www.splunk.com/en_us/training/courses/what-is-splunk.html)

Intro to Splunk (SSC) : [https://www.splunk.com/en\\_us/training/courses/intro-to-splunk.html](https://www.splunk.com/en_us/training/courses/intro-to-splunk.html)

Using Fields (SSC) : [https://www.splunk.com/en\\_us/training/courses/using-fields.html](https://www.splunk.com/en_us/training/courses/using-fields.html)

Visualizations (SSC) : [https://www.splunk.com/en\\_us/training/courses/visualizations.html](https://www.splunk.com/en_us/training/courses/visualizations.html)

Intro to Knowledge Objects (SSC) : [https://www.splunk.com/en\\_us/training/courses/intro-to-knowledge-objects.html](https://www.splunk.com/en_us/training/courses/intro-to-knowledge-objects.html)

Search Under the Hood (SSC) : [https://www.splunk.com/en\\_us/training/courses/search-under-the-hood.html](https://www.splunk.com/en_us/training/courses/search-under-the-hood.html)

Or ask Arrow Education Team for Prerequisites Fast Start bundle (SPL\_PREREQ)

## Inhalt

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

## Test und Zertifizierung

Certification : Splunk Core Certified Power User

## Weitere Informationen

NOTE: Make sure to complete a module within a 4 hour time range, do not start a module one day and then end the next day)

Network Security  
Data Intelligence AI  
Cloud

## Kurstermine

| Datum       | Lokation | Time Zone | Sprache | Type                  | Durchführungsgarantie | PREIS     |
|-------------|----------|-----------|---------|-----------------------|-----------------------|-----------|
| 20 Apr 2026 | Wien     | CEDT      | German  | Instructor Led Online |                       | €4,000.00 |
| 20 Jul 2026 | Wien     | CEDT      | German  | Instructor Led Online |                       | €4,000.00 |
| 02 Nov 2026 | Wien     | CET       | German  | Instructor Led Online |                       | €4,000.00 |

## Zusätzliche Information

[Diese Schulung ist auch als Vor-Ort-Schulung verfügbar. Bitte kontaktieren Sie uns, um mehr zu erfahren.](#)