Full Observability Pipeline with Splunk OpenTelemetry

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 course enables participants to build, configure, and troubleshoot a full observability pipeline using the Splunk Distribution of the OpenTelemetry Collector. Learners will gain experience with metrics, logs, and traces, exploring how to enrich, transform, and analyze telemetry data flowing through the collector into Splunk Observability Cloud.

About This Course

This course enables participants to build, configure, and troubleshoot a full observability pipeline using the Splunk Distribution of the OpenTelemetry Collector. Learners will gain experience with metrics, logs, and traces, exploring how to enrich, transform, and analyze telemetry data flowing through the collector into Splunk Observability Cloud.

Who Should Attend

- SRE/DevOps Engineers
- Platform/Infrastructure Engineers
- Observability Monitoring Specialists

Prerequisites & Entry Requirements

General Prerequisites:

- Basic Linux terminal proficiency
- Familiarity with Docker, Docker Compose
- Working knowledge of YAML
- Awareness of telemetry concepts (metrics, logs, traces)
- Introductory experience with Splunk Observability Cloud or similar observability backends

Detailed Course Outline

Module 1: Introduction to the OpenTelemetry Collector

- Describe OpenTelemetry and available distributions
- Describe OpenTelemetry Collector packaging options, deployment models and ingestion modes
- Visualize the flow of telemetry data through the Collector pipeline, from ingestion to export
- Deploy and configure the OpenTelemetry Collector using guided steps
- Use best practices and advanced configuration techniques

Module 2: Traces Pipeline

- Use the `otlphttp` exporter to send traces to Splunk Observability Cloud
- Compare auto and manual instrumentation approaches
- Auto-instrument a Node.js Express application using the Splunk
- OpenTelemetry JavaScript agent
- Enrich traces with additional metadata using processors
- Explore trace data and errors using the APM Service Map

Module 3 – Metrics Pipeline

- Define processors to rename, aggregate, and scale metrics
- Configure the signalfx exporter
- Explain the importance of metric normalization
- Apply best practices when editing the otelcol-config.yml file

Module 4 – Logs Pipeline

- Describe log ingestion into Splunk via splunk_hec and how logs become viewable in Splunk Observability Cloud.
- Use Log Observer to search and explore logs
- Filter noisy logs with the filter processor to reduce telemetry volume and control data costs.
- Redact, or modify log data to meet privacy and compliance needs

Frequently Asked Questions

Q: What delivery options are available for Full Observability Pipeline with Splunk OpenTelemetry?

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 Full Observability Pipeline with Splunk OpenTelemetry 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 Full Observability Pipeline with Splunk OpenTelemetry 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 Full Observability Pipeline with Splunk OpenTelemetry?

Yes, we provide corporate training, dedicated training, and closed classes for Full Observability Pipeline with Splunk OpenTelemetry. 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: Full Observability Pipeline with Splunk OpenTelemetry, Splunk Observability, FOPSOT

Q: Why choose Nexus Human for Full Observability Pipeline with Splunk OpenTelemetry?

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 Full Observability Pipeline with Splunk OpenTelemetry training. Please note that only one discount code can be used per booking and cannot be combined with other special offers.

Nexus Human

Professional Training & Development

Email: info@nexushuman.com

Website: www.nexushuman.com

Phone: +353 1 XXX XXXX (Ireland) | +44 20 XXXX XXXX (UK)

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