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# Full Observability Pipeline with Splunk OpenTelemetry

OEM: Splunk • Duration: 2 Days (9 hrs) • Code: SPLK-OTEL-PIPELINE

## COURSE MODULES & TOPICS

### 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