

# Elastic Certified Observability Engineer

**Duration:** 24 Hours

## Uptime

- Configure and run Heartbeat to determine the uptime of a process or service
- Use Heartbeat to determine if a service is reachable via ICMP, TCP or HTTP
- Use the Uptime app in Kibana to monitor the uptime and availability of a service

## Metrics

- Install the Elastic Agent to collect metrics
- Enable and configure integrations to collect the metrics of a specific service
- Use the Metrics app in Kibana to analyze and answer questions about metrics collected in Elasticsearch
- Use the Metrics app to enable and analyze the predefined machine learning jobs

## Logging

- Install the Elastic Agent to collect logs
- Enable and configure integrations to collect the logs from a specific service
- Enable and configure integrations to tail a given custom log file
- Use the Logs app in Kibana to analyze and answer questions about log events collected in Elasticsearch
- Use the Logs app to enable and analyze the predefined machine learning jobs

## APM

- Use the APM app in Kibana to analyze and answer questions about APM data collected in Elasticsearch
- Use the Real Experience app in Kibana to analyze and answer questions about RUM data collected in Elasticsearch
- Edit and configure the APM integration

## Structuring and Processing Data

- Use Kibana to edit or define an ingest node pipeline
- Configure the custom logs integration to use an ingest pipeline
- Define ingest node pipelines that use the various processors, including (but not limited to) append, convert, date, dissect, dot expander, geoip, grok, fail, json, remove, rename, set, and split

## Working with Observability Data

- Find anomalies in Observability data using the predefined machine learning jobs in Kibana
- Define a machine learning job in Kibana on Observability data
- Define or edit an Index Lifecycle Management policy for indices
- Define an alert using Kibana Alerts
- Create dashboards that use visualizations based on Observability data