

# TOC \_ Camunda 8 Certified Developer Certification Training

**Duration: 7days (56hours)**

**Training delivery mode: - Online/Virtually**

## Day 1:

- Camunda 8 Overview
- Camunda 8 - Technical Overview
- BPMN Overview
- Web Modeler Overview
- Installing Camunda 8 on Kubernetes
  - Helm chart installation and configuration
  - Namespace setup, resource requests/limits, scaling configurations
  - Persistence and storage options
- Customizing Self-Managed Setup
  - **Externalizing Elasticsearch** – configuration, scaling, and securing
  - Using an **external identity server** (Keycloak, Okta) for Cockpit authentication and authorization
  - Externalizing Operate, Tasklist, and Optimize connections
- Managing Secrets in Kubernetes
  - Kubernetes Secrets and ConfigMaps
  - Using external secret stores (HashiCorp Vault, AWS Secrets Manager, Azure Key Vault)
  - Rotating and updating secrets without downtime

## Day 2:

- BPMN – Task Types
- BPMN -Events
- BPMN – Participants
- BPMN – Subprocesses
- BPMN – Messages and Collaboration
- BPMN – Data and Artifacts
- BPMN – Error Handling
- BPMN – Event Subprocesses
- BPMN – Compensation
- BPMN – Inclusive Gateway
- BPMN – Markers
- How to Use a script task
- How to Use Sub-Processes & Call Activities

- How to Use Timer Events
- How to Use the Multi-Instance Marker

### **Day 3:**

- DMN – Overview
- DMN – Hit Policies
- DMN – Advanced DRDs
- Getting started with Decision Automation
- Create Advanced Camunda Forms
- How to Use the AI-assisted Form Builder
- AI Integration in Camunda 8
  - Use cases: intelligent task assignment, process decisioning, NLP for form inputs
  - Connecting Camunda with AI APIs (OpenAI, Azure AI, etc.)
  - Using AI in Service Tasks vs Decision Tables (DMN)
  - AI-assisted BPMN model creation and connectors
- Intelligent Document Processing (IDP) Integration
  - Common IDP tools (ABBYY, Kofax, AWS Textract, Azure Form Recognizer)
  - Use cases: automated document classification, extraction, and validation
  - Integrating IDP outputs into Camunda workflows
  - Error handling and human validation for IDP results

### **Day 4:**

- FEEL – Overview
- FEEL – Temporals
- FEEL – Lists
- FEEL – Contexts
- FEEL – Control Flow and Advanced Expressions
- Getting started with Microservice Orchestration
- Working with the Zeebe API (CLI client)
- Develop Workers (Java)
- Develop Workers (Spring Zeebe)

## Day 5:

- Connectors Overview
- Create Custom Inbound Connectors
- Create Custom Outbound Connectors
- How to Customise a Connector Template
- How to Generate a Connector Template from an API specification
- Error Handling & Retries in Connectors
  - Handling connector-level exceptions (HTTP, Database, AI, IDP)
  - Configuring retries, backoff policies, and incident handling
  - Distinguishing between BPMN error events and technical errors
  - Alerting and incident resolution strategies
- Connector Configuration Best Practices
  - Securing connector credentials
  - Configuring custom retry and timeout policies
  - Logging and monitoring connector behavior

## Day 6:

- Deep Dive into Zeebe Exporters
  - **Default Zeebe exporters** (Elasticsearch, Debug, Metrics) – purpose and usage
  - Enabling, disabling, and configuring exporters
  - Exporter lifecycle and performance considerations
- Custom Zeebe Exporters
  - Use cases (custom monitoring, audit logging, integration with external stores)
  - Creating a custom exporter in Java
  - Packaging, deploying, and maintaining custom exporters
  - Testing exporter reliability and performance impact
- Execution Listeners
- Error Handling
- Process Communication
- Manage Process Data

## Day 7:

- Process Instance Modification using Operate
- Process Instance Migration using Operate
- Testing Processes
- How to Filter for Process and Decision Instances
- How to Migrate a Process Instance
- How to Handle Process Incidents in Operate
- Camunda 8 - Getting Started with Optimize
- History Deletion & Data Retention
  - Configuring history TTL in configuration files
  - History cleanup through Operate and Optimize
  - **History deletion via Camunda 8 APIs** – automation scripts and scheduled cleanups
- Administration & Maintenance
  - Monitoring Zeebe performance (Grafana/Prometheus dashboards)
  - Upgrading self-managed Camunda 8 clusters
  - Backup and restore strategies for workflows and data