

## Koenig Crafted - Kubernetes Essentials

**Duration:** 1 Day

**Hands-On Format:** This hands-on class is approximately 80/20 lab to lecture ratio, combining engaging lecture, demos, group activities and discussions with comprehensive machine-based practical programming labs and project work.

### **Module 1 – Core Concepts**

Overview of Container Orchestration  
Introduction to Kubernetes  
Kubernetes Architecture

### **Module 2 – Managing Resources**

Managing Pods  
Managing Labels & Selector  
Managing Replica Set  
Managing Service – ClusterIP, NodePort, LoadBalancer

### **Module 3 – Application Lifecycle Management**

Overview of Deployment  
Deployment Strategies  
Managing Deployment

### **Module 4 – Storage**

Volumes  
Persistent Volumes  
Persistent Volume Claim