# Docker Fundamentals + Enterprise Developers Bundle

**Duration: 4 Days** **Course Code: DOCK6023**

## Overview:

The Docker Fundamentals + Enterprise Developers Bundle includes the full Docker for Enterprise Developers course as well as the prerequisite Docker Fundamentals course run back to back in a single intensive training experience.

The Docker Fundamentals training course offers learners the opportunity to assimilate basic container orchestration and how to scale Docker across multiple nodes in a simple swarm or Kubernetes cluster. As the follow-on to the Docker Fundamentals course,
Docker for Enterprise Developers is a role-based course designed for an organization's Development and DevOps teams to accelerate their Docker journey in the enterprise. The course covers best practices to containerize and modernize legacy applications or build containerized applications from scratch that are secure, robust, highly available, resilient and self-healing.

## Target Audience:

Software Engineers and DevOps professionals working in an Enterprise developing mission critical line of business Applications.

## Objectives:

- By the end of the course, successful learners will be able to:
- Understand the foundations of containerization on a
- single Docker node
- Create an image using Dockerfile best practices
- Use volumes in the application development process
- Utilize two different orchestrators (Swarm and
- Kubernetes) to deploy a single application across
- multiple machines
- Create a secret and understand its accessibility
- capabilities
- Describe the essential patterns used in a highly
- distributed EE application
- Understand how to configure EE applications for
- different environments without code change.
- Produce and containerize EE application that is a
- scalable, accessible, and fault-tolerant.
- Apply different debugging and testing

## Content:

Day 1

- The Docker Story
- Introduction to Images
- Creating Images
- System Commands
- Volumes
- Plugins

Day 2

- Docker Networking Basics
- Docker Compose
- Scaling out with Swarm ; Kubernetes
- Managing Secrets

Day 3

- Architecture of a Highly Distributed Application
- Development Pipeline Overview
- Developing Applications using Docker
- Edit and Continue
- Debugging
- Docker Compose
- Testing
- Health Check
- Defensive Programming
- Logging and Error Handling
- Docker Builder
- Docker Secrets
- Routing Mesh
- HTTP Routing Mesh

Day 4

- Continuous Integration and Delivery
- UCP and DTR
- Configuration Management
- Tagging and Versioning
- Content Trust
- Image Scanning
- Webhooks
- Image Promotion

## Further Information:

For More information, or to book your course, please call us on Head Office 01189 123456 / Northern Office 0113 242 5931

info@globalknowledge.co.uk

www.globalknowledge.com/en-gb/

Global Knowledge, Mulberry Business Park, Fishponds Road, Wokingham Berkshire RG41 2GY UK