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Course Code: LX063G

Course Title: Preparing for Red Hat OpenShift: Implementing Containers on IBM Power Systems

### **Description:**

This 2 day course is designed to provide skills enablement for system administrators and product support specialists in the area of operating system based virtualization provided by Linux containers. Topics include introduction to Podman, Buildah, Docker, Kubernetes and CRI-O. Hands-on exercises reinforce the lecture material, allowing students to install and configure Linux containers.

### **Objectives:**

After completing this course, you should be able to:

- Describe Linux containers architecture
- Install and configure Docker onto a Power Systems environment
- Perform Docker administration operations
- Install and configure CRI-O
- Perform basic container orchestration steps

### **Prerequisites:**

Basic Linux skills

Basic PowerVM skills

### **Duration:**

16 Hrs

### **Topics:**

Unit 1: Introduction to containers

Exercise 1: Accessing lab environment

Unit 2: Implementing containers on IBM Power Systems

Exercise 2: podman installation

Unit 3: Container operations

Exercise 3: Managing containers and images

Unit 4: Container orchestration

Exercise 4: Managing storage and networking

**Audience:**

This course is for anyone that needs to build experience with operating system based virtualization using Docker. The audience for this training includes the following:

Cloud administrators

POWER technical support individuals

POWER system administrators

POWER system engineers

POWER system architects