

## Ansible on IBM Power Workshop

OEM: IBM • Duration: 2 Days (16 hrs) • Code: QZC51G

### COURSE MODULES & TOPICS

#### Objectives

- Summarize the key principles of DevOps in IT
- Recognize the requirements and procedure to setup Ansible on IBM Power
- Analyze the key components and their interactions within the Ansible architecture
- Automate server administration tasks with Ansible Playbooks
- Use IBM Power Collections on AIX, VIOS and HMC to automate routine tasks
- Recognize the various tasks which can be performed when Ansible is integrated with IBM PowerVC to manage AIX and Linux clients
- Develop Ansible playbooks that use infrastructure as code principles to orchestrate deployments in an IBM Power environment

#### Day 1:

- Unit 0: Course Administration and Introduction: (15 minutes)
- Unit 1: Introduction to DevOps (45 minutes)
- Unit 2: Ansible Overview and Administration (1 hour)
- Unit 3: Ansible Configuration (1 hour)
- Exercise 1. Verification of Prerequisites (1 hour)
- Exercise 2. Ansible Setup and Configuration (1 hour)
- Exercise 3. IBM PowerVC Integration with Ansible (30 minutes)
- Exercise 4. Ansible Roles (30 minutes)
- Exercise 5. Ansible on IBM AIX (30 minutes)

#### Day 2:

- Unit 4: IBM Power Collections (1 hour)
- Unit 5: Architecting Ansible Solutions (1 hour)
- Exercise 6. IBM Power AIX Collection (1.5 hours)
- Exercise 7. IBM Power VIOS Collection (30 minutes)
- Exercise 8. IBM Power HMC Collection (30 minutes)
- Exercise 9. IBM Power OpenStack Collection (45 minutes)
- Exercise 10. Deploy Modern Web Applications on IBM Power from GitHub (30 minutes)
- Exercise 11. Testing and Debugging Ansible Playbooks with Linting Tools (45 minutes)