**Design and Implement Dev Ops Engineering**

**Duration: 5 Days**

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| **Module Name** | **Day** | **Start Time** | **End Time** |
| **Module 1: Dev Ops Fundamentals** | Day 1 | 09:00 | 12:30 |
| **Introduction to DevOps** |  |  |  |
| **Design your DevOps Environment** |  |  |  |
| **Module 2: Cloud Fundamentals** | Day 1 | 13:30 | 15:00 |
| **IT Infrastructure Fundamentals** |  |  |  |
| **Platform Fundamentals** |  |  |  |
| **Cloud Delivery Model (Public, Private, Hybrid )** |  |  |  |
| **Cloud Service ( Iaas, PaaS,SaaS )** |  |  |  |
| **Lab: Create and Automate infrastructure in Cloud (Storage, EC2, RDS, Cloud Formation)** |  | 15:00 | 18:00 |
| **Module 3: Docker Containers** | Day 2 | 09:00 | 18:00 |
| **Docker Fundamentals** |  |  |  |
| **Building and Shipping Docker container** |  |  |  |
| **Running Container As a Service (ECS)** |  |  |  |
| **Lab: Containerizing Application using Docker** |  |  |  |
| **Module 4: Code Management in GIT** | Day 3 | 09:00 | 13:00 |
| **GIT Basics** |  |  |  |
| **GIT Branching** |  |  |  |
| **Managing GIT Repository** |  |  |  |
| **GIT Hub** |  |  |  |
| **GIT Tools** |  |  |  |
| **Lab: GIT** |  |  |  |
| **Module 5: Infrastructure Automation using Chef** | Day 3 | 13:00 | 18:00 |
| **Chef Architecture** | Day 4 | 09:00 | 18:00 |
| **Chef Cookbooks** |  |  |  |
| **Chef Policy** |  |  |  |
| **Lab: Working with Chef** |  |  |  |
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| **Module 6: Continuous Integration?** | Day 5 | 09:00 | 13:00 |
| **Benefits of CI** |  |  |  |
| **CI Using Jenkins** |  |  |  |
| **Jenkins Features** |  |  |  |
| **Jenkins Architecture** |  |  |  |
| **Managing application on Jenkins** |  |  |  |
| **Lab: CI using Jenkins** |  |  |  |
|  |  |  |  |
| **Module 7: Connecting the Dots** | Day 5 | 14:00 | 18:00 |
| **Move the Code and Development to DevOps Model** |  |  |  |
| **Move Agile in Infrastructure and Development** |  |  |  |
| **Create a DevOps Environment in Cloud** |  |  |  |
| **Use Containers as Application build process** |  |  |  |
| **Put Code and Containers in GIT** |  |  |  |
| **Automate Infrastructure Creation and Scaling in Cloud** |  |  |  |
| **Automate Configuration using Puppet** |  |  |  |
| **Repeat the Process in Different environments** |  |  |  |
| **Create a DevOps Process for you Organization** |  |  |  |