Red Hat Training: Open Practices for your DevOps Journey (TL250)

Course Duration: 32 Hours **Course code: TL 250**

1. Course Overview

This four-day course focuses on adopting open practices to accelerate your DevOps journey using Red Hat methodologies. You will learn how to implement DevOps culture, improve collaboration, and apply agile and lean practices to enhance software delivery. The course emphasizes real-world team collaboration, continuous improvement, and open source principles to build efficient DevOps workflows.

2. What you'll learn?

By the end of the course, you will be able to:

- Understand DevOps culture and open practices
- Apply agile and lean principles in DevOps environments
- Improve collaboration between cross-functional teams
- Implement continuous feedback and improvement loops
- Use open source tools and practices effectively
- Manage work using agile frameworks like Scrum and Kanban
- Enhance communication and transparency in teams
- Adopt DevOps practices for faster and reliable delivery

3. Target Audience

This course is ideal for:

- DevOps Engineers
- Software Developers
- IT Managers and Team Leads
- Agile Practitioners and Scrum Masters

- System Administrators and Operations Teams

4. Pre-Requisites

Before taking this course, you should have:

- Basic understanding of software development lifecycle (SDLC)
- Familiarity with IT operations and development environments
- Awareness of Agile methodologies (recommended)
- Basic knowledge of DevOps concepts (helpful but not mandatory)

5. Course content

Module 1: Course Introduction

- Course overview and objectives
- Introduction to open practices
- Lab environment and collaboration setup

Module 2: Understanding DevOps Culture

- DevOps principles and mindset
- Breaking silos between teams
- Importance of collaboration and communication
- Cultural transformation in organizations

Module 3: Introduction to Open Practices

- What are open practices?
- Open source culture and principles
- Transparency, inclusivity, and meritocracy
- Benefits of open collaboration

Module 4: Agile and Lean Fundamentals

- Agile methodologies overview

- Lean principles in DevOps
- Value stream mapping
- Eliminating waste and improving flow

Module 5: Agile Frameworks (Scrum and Kanban)

- Scrum roles, events, and artifacts
- Kanban boards and workflow visualization
- Managing work in progress (WIP)
- Continuous delivery mindset

Module 6: Collaboration and Team Dynamics

- Building high-performing teams
- Psychological safety and trust
- Cross-functional collaboration
- Communication strategies in DevOps

Module 7: Work Management and Planning

- Backlog creation and prioritization
- User stories and acceptance criteria
- Sprint planning and execution
- Retrospectives and continuous improvement

Module 8: Continuous Integration and Delivery Concepts

- Overview of CI/CD practices
- Importance of automation
- Pipeline thinking and workflows
- Feedback loops in CI/CD

Module 9: DevOps Metrics and Measurement

- Key performance indicators (KPIs)
- DORA metrics (Deployment frequency, lead time, etc.)

- Measuring team performance
- Using metrics for improvement

Module 10: Continuous Feedback and Learning

- Feedback loops in DevOps
- Blameless postmortems
- Learning culture and knowledge sharing
- Continuous experimentation

Module 11: Open Source Tools and Ecosystem

- Overview of DevOps tools
- Using open source collaboration tools
- Version control and issue tracking basics
- Integrating tools into workflows

Module 12: DevOps Practices for Automation

- Infrastructure as Code (IaC) concepts
- Configuration management basics
- Automation strategies
- Reducing manual effort

Module 13: Scaling DevOps Practices

- Scaling agile across teams
- DevOps in large enterprises
- Managing distributed teams
- Governance and standardization

Module 14: Security and Compliance in DevOps

- Introduction to DevSecOps
- Embedding security into workflows
- Risk management and compliance

- Secure collaboration practices

Module 15: Real-World Use Cases and Hands-on Labs

- Simulated DevOps team exercises
- End-to-end workflow implementation
- Collaboration scenarios and problem-solving
- Best practices for DevOps adoption