Transitional approach to implementing pragmatic Site Reliability Engineering (SRE) | TL012

Course Duration: 8 Hours **Course Code: TL012**

1. Course Overview

The **Transitional Approach to Implementing Pragmatic Site Reliability Engineering (SRE) Technical Overview (TL012)** course provides IT leaders, architects, and operations teams with the knowledge to **understand, adopt, and gradually implement SRE principles in a pragmatic way**. Unlike a purely theoretical approach, this course emphasizes a **step-by-step transitional model** to integrate SRE practices into existing IT operations and DevOps cultures without disrupting business-critical workflows.

By the end of this course, participants will understand **how to balance reliability and innovation**, implement **Service Level Objectives (SLOs), Service Level Indicators (SLIs), error budgets, and observability practices**, and move towards a **sustainable SRE adoption journey**.

2. What You'll Learn

- Understand the **core principles of Site Reliability Engineering (SRE)**.
- Explore a **pragmatic, transitional roadmap** for implementing SRE in enterprises.
- Learn to define and apply **SLOs, SLIs, and error budgets**.
- Understand the role of **automation, monitoring, and observability** in reliability.
- Balance **development velocity** with **system stability**.

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- Discover **best practices for cultural transformation** toward SRE.

3. Target Audience

This course is designed for:

- IT leaders and managers planning to **adopt SRE within their organizations**.
- **DevOps engineers, system administrators, and reliability engineers** seeking structured guidance.
- Technical architects and operations teams transitioning from **traditional IT operations**.
- Organizations that want to **improve service availability and reliability** without large-scale disruption.

4. Pre-Requisites

- Basic knowledge of **DevOps principles and practices**.
- Familiarity with **IT operations and monitoring tools**.
- General understanding of **cloud, automation, and service management** concepts.

5. Course Content

Module 1: Introduction to Site Reliability Engineering (SRE)

- What is SRE?
- The need for SRE in modern enterprises
- SRE vs. DevOps: similarities and differences

Module 2: Transitional Approach to SRE Adoption

- Challenges of implementing SRE in traditional IT environments

- Transitional vs. full adoption approaches
- Roadmap to pragmatic SRE implementation

Module 3: Service Reliability Concepts

- Service Level Indicators (SLIs)
- Service Level Objectives (SLOs)
- Error budgets and release management

Module 4: Building Observability and Monitoring

- Metrics, logs, and traces for SRE
- Automated monitoring and alerting
- Incident response practices

Module 5: Reliability through Automation

- Role of automation in reducing toil
- CI/CD pipelines and release strategies
- Auto-remediation and self-healing systems

Module 6: Cultural Transformation to SRE

- Shifting team responsibilities
- Collaboration between development and operations
- Overcoming resistance to change

Module 7: Best Practices and Case Studies

- Real-world adoption stories
- Pitfalls to avoid in SRE implementation
- Scaling SRE practices across teams