Certified DevOps Site Reliability Engineering (SRE) Foundation Training

Duration: **2 Day**

BILGINÇ IT Academy
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Overview

The **SRE Foundation certification course** provides a solid introduction to the principles, practices, and culture of **Site Reliability Engineering (SRE)** — a discipline that integrates **software engineering** and **operations** to deliver scalable and dependable services.

Developed in collaboration with industry thought leaders and guided by Google's pioneering SRE practices, this course helps professionals understand how reliability, automation, and engineering excellence come together to enable resilient IT systems.

Through case studies, exercises, and practical discussions, you'll learn how to implement **Service Level Objectives (SLOs)**, manage **Error Budgets**, reduce **Toil**, and foster a **culture of reliability** across your organization.

This course prepares participants to successfully pass the **SRE Foundation Certification Exam**, governed by the **DevOps Institute**.

Bilginç IT Academy is an officially **Accredited Training Organisation (ATO)** by **PeopleCert**, the global leader in professional certification and exam delivery.
As an authorized PeopleCert partner, we deliver accredited training and official certification exams for **ITIL®, PRINCE2®, DevOps, and other PeopleCert-certified programs**, ensuring our learners receive globally recognized credentials with the most up-to-date curriculum.

Visit our official PeopleCert partner page here: Bilginç IT Academy – PeopleCert Official Partner

Important Information:
This course is an official program accredited by PeopleCert and is offered **only together with the corresponding certification exam**. The course fee **includes the exam fee**.
Participants can take the certification exam online through PeopleCert's examination system and earn an internationally recognized certificate.
This practice is mandatory to ensure compliance with PeopleCert's quality standards and accreditation guidelines.

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Prerequisites

A basic understanding of **DevOps concepts, terminology, and IT operations** is recommended.

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Who Should Attend

This course is designed for:

- DevOps Engineers, Software Developers, and System Administrators
- IT Operations Managers and Service Delivery Professionals
- Site Reliability Engineers (SREs) and Infrastructure Teams
- Anyone seeking to adopt or optimize SRE practices in their organizatio

What You Will Learn

By the end of this course, participants will be able to:

- Understand the **history and evolution of SRE** and its relationship with DevOps.
- Define and manage **Service Level Objectives (SLOs)** and **Service Level Indicators (SLIs)**.
- Implement and monitor **Error Budgets** and related policies.
- Identify and minimize **Toil** to improve team productivity.
- Enhance **Observability** to better measure system health.
- Leverage automation tools to increase reliability and security.
- Apply **anti-fragility principles** to turn failure into learning opportunities.
- Recognize the **organizational impact** of adopting SRE practices.

Outline

Course Introduction

- Course Goals and Agenda
- Overview of SRE and Course Structure

Module 1: SRE Principles & Practices

- What is Site Reliability Engineering?
- SRE vs. DevOps — Key Differences and Synergies
- Core Principles and Best Practices

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Module 2: Service Level Objectives & Error Budgets

- Defining **SLOs** and understanding user impact
- Managing **Error Budgets**
- Designing **Error Budget Policies**

Module 3: Reducing Toil

- What is **Toil** and why it matters
- Measuring and eliminating Toil through automation
- Building sustainable reliability practices

Module 4: Monitoring & Service Level Indicators

- Defining **SLIs** (Service Level Indicators)
- Modern monitoring approaches
- Implementing **Observability** for proactive reliability

Module 5: SRE Tools & Automation

- Defining **Automation** and its hierarchy
- Secure automation techniques
- Selecting tools for scaling and reliability

Module 6: Anti-Fragility & Learning from Failure

- Embracing failure as a learning tool
- Building **anti-fragile systems**
- Encouraging a **blameless culture**

Module 7: Organizational Impact of SRE

- Why organizations adopt SRE
- Patterns for scaling reliability practices
- On-call strategies and **Blameless Post-Mortems**

Module 8: SRE, Frameworks & The Future

- Integrating SRE with ITIL, Agile, and DevOps

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- The future of SRE and evolving practices
- Exam preparation and review

Certification

Passing the **SRE Foundation Exam** (40 multiple-choice questions, 60 minutes, 65% pass mark) grants the **Certified SRE Foundation** credential, recognized globally by the **DevOps Institute**.

Certification Includes:

- Official exam & online voucher
- Digital courseware
- Recognized SRE Foundation Certificate