



02
DAYS
COURSE

PREREQUISITE

Familiarity with IT terminology & IT related work experience are recommended.

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PROGRAM DESCRIPTION



The SRE (Site Reliability Engineering) Foundation course is an introduction to the principles & practices that enable an organization to reliably and economically scale critical services. Introducing a site-reliability dimension requires organizational re-alignment, a new focus on engineering & automation, and the adoption of a range of new working paradigms.

The course highlights the evolution of SRE and its future direction, and equips participants with the practices, methods, and tools to engage people across the organization involved in reliability and stability evidenced through the use of real-life scenarios and case stories. Upon completion of the course, participants will have tangible takeaways to leverage when back in the office such as understanding, setting and tracking Service Level Objectives (SLO's).

The course was developed by leveraging key SRE sources, engaging with thought-leaders in the SRE space and working with organizations embracing SRE to extract real-life best practices and has been designed to teach the key principles & practices necessary for starting SRE adoption.

This course positions learners to successfully complete the SRE Foundation certification exam.

DELIVERED BY :



CERTIFIED BY :



SRE FOUNDATION



COURSE OUTLINE

COURSE INTRODUCTION

- Course Goals
- Course Agenda

01

SRE PRINCIPLES & PRACTICES

- What is Site Reliability Engineering?
- SRE & DevOps: What is the Difference?
- SRE Principles & Practices

02

SERVICE LEVEL OBJECTIVE & ERROR BUDGETS

- Service Level Objective (SLO's)
- Error Budgets
- Error Budget Policies

03

REDUCING TOIL

- What is Toil?
- Why is Toil Bad?
- Doing Something About Toil

04

MONITORING & SERVICE LEVEL INDICATORS

- Service level Indicator (SLI's)
- Monitoring
- Observability

05

SRE TOOLS & AUTOMATION

- Automation Defined
- Automation Focus
- Hierarchy of Automation Types
- Automation Tools
- Secure Automation

06

ANTI-FRAGILITY & LEARNING FROM FAILURE

- Why Learn from Failure
- Benefits of Anti-Fragility
- Shifting the Organizational Balance

07

ORGANIZATIONAL IMPACT OF SRE

- Why Organization Embrace SRE
- Patterns for SRE Adoption
- Sustainable Incident Response
- Blameless Post-Mortems

08

SRE OTHER FRAMEWORKS, TRENDS

- SRE & Other Frameworks
- SRE Evolution
- SRE Source

09

ADDITIONAL SOURCES

- Additional sources of Information

10

EXAM PREPARATIONS

- Exam Requirements, Question Weighting and Terminology List
- Sample Exam

11

OBJECTIVE

The learning objectives for the SRE Foundation course include a practical understanding of:

- The history of SRE and its emergence at Google.
- The inter-relationship of SRE with DevOps and other popular frameworks.
- The underlying principles behind SRE
- Service Level Objectives (SLO's) and their user focus
- Service Level Indicators (SLI's) and the modern monitoring landscape
- Error budgets and the associated error budget policies
- Toil and its effect on an organization's productivity
- Some practical steps that can help to eliminate toil
- Observability as something to indicate the health of a service
- SRE tools, automation techniques and the importance of security
- Anti-fragility, our approach to failure and failure testing
- The organizational impact that introducing SRE brings

TARGET AUDIENCE

The target audience for the SRE Foundation course are professionals including :

- Anyone starting or leading a move towards increased reliability
- Anyone interested in modern IT leadership and organizational change approaches
- Business Managers
- Business Stakeholders
- Change Agents
- Consultants
- DevOps Practitioners
- IT Managers
- IT Team Leaders
- Product Owners
- Scrum Masters
- Software Engineers
- Site Reliability Engineers
- System Integrators
- Tool Providers
- IT Directors

LEARNER MATERIALS

- Sixteen (16) hours of instructor-led training and exercise facilitation
- Learner Manual (excellent post-class reference) including:
 - Course slideware
 - Value Added Resources
 - Glossary
- Participation in exercises designed to apply concepts
- Case stories
- Access to additional sources of information and communities

CERTIFICATION EXAM

Successfully passing (65%) the 60-minute examination, consisting of 40 multiple-choice questions, leads to the SRE (Site Reliability Engineering) Foundation certificate. The certification is governed and maintained by the DevOps Institute.