Site Reliability Engineering (SRE) Foundation℠

SRE TRAINING

COURSE OVERVIEW

The SRE Foundation course is an introduction to the principles and 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 and 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 using 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. SRE embraces most of the fundamental concepts – such as automation, collaboration and quality – of DevOps, but augments it witch some more measurable targets, which are especially relevant in an enterprise context.

TARGET AUDIENCE

- 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 Directors, IT Managers, IT Team Leaders, Product Owners, Scrum Masters, Software Engineers, Site Reliability Engineers, System Integrators or Tool Providers.

LEARNING OBJECTIVES

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

COURSE SUMMARY

Certificate:
Site Reliability Engineering (SRE) Foundation℠

Course Format:
Classroom, Virtual or Self-Paced

Course Duration:
Classroom: 2 days
Virtual: 3 days (2x2-hours a day)

EXAM FORMAT

- 40 Multiple Choice Question
- 60 minutes duration
- Pass Mark – 65% (26/40 marks)
- Open Book
- Available in English