

Site Reliability Engineering (SRE) Foundation («DEVSRE»)

Do you want reliable, scalable software systems? Then get to know Site Reliability Engineering. The principles and practices of this service management approach are closely related to DevOps and allow for combined application.

Duration: 2 days

Price: 2'500.–

Course documents: Official courseware (digital) in English

Content

1. Module: SRE Principles & Practices
 - What is Site Reliability Engineering?
 - SRE & DevOps: What is the Difference?
 - SRE Principles & Practices
2. Module: Service Level Objectives & Error Budgets
 - Service Level Objectives (SLOs)
 - Error Budgets
 - Error Budget Policies
3. Module: Reducing Toil
 - What is Toil?
 - Why is Toil bad?
 - Doing something about Toil
4. Module: Monitoring & Service Level Indicators
 - Service Level Indicators (SLIs)
 - Monitoring
 - Observability
5. Module: SRE Tools & Automation
 - Automation Defined
 - Automation Focus
 - Hierarchy of Automation Types
 - Secure Automation
 - Automation Tools
6. Module: Anti-Fragility & Learning from Failure
 - Why Learn from Failure
 - Benefits of Anti-Fragility
 - Shifting the Organizational Balance
7. Module: Organizational Impact of SRE
 - Why Organizations Embrace SRE
 - Patterns for SRE Adoption
 - On-Call Necessities
 - Blameless Post-Mortems
 - SRE & Scale
8. Module: SRE, Other Frameworks, The Future
 - SRE & Other Frameworks
 - The Future
 - Additional Sources of Information

Key Learnings

- Knowledge of the genesis of SRE at Google, its relationship to other popular frameworks, and knowledge of SRE principles
- In-depth understanding and application of Service Level Objectives, Indicators, and Error Budgets
- Knowledge of Observability and Antifragility
- Knowledge of how SRE can be implemented in your own organization

Methodology & didactics

You will receive interactive training from presentation and group exercises.

Participants are supported by well-founded and certified training material that also provides valuable support for everyday project work after the seminar.

Target audience

This course is suitable for anyone who wants to improve reliability, resilience, maintainability and scalability of their services - whether as a site reliability engineer, SRE project manager, developer, IT operations professional or IT manager.

Requirements

There are no formal prerequisites for this course.

- [DevSecOps Foundation \(«DEVSEC»\)](#)

Certification

You will receive a voucher for an online exam via email from PeopleCert a few days before the course starts. The exam voucher must be redeemed directly on PeopleCert, where you can register for an available exam date. The online exam is proctored by a PeopleCert proctor, which requires a device with a microphone and camera. We recommend taking the exam on a personal PC/notebook, as corporate notebooks are often subject to restrictions.

For more information about the exam, please visit the PeopleCert website [here](#).

Exam format: Web-based, multiple-choice exam, number of questions: 40, passing score: 65%, duration: 60 minutes, open book

«Take2» option:

This option allows you to retake the exam at a lower price if you do not pass. The retake exam takes place **online**. If required, you can book this option independently in your PeopleCert candidate profile before booking the exam. You have up to 6 months from the date of the first exam to prepare and take the retake exam.

Under [this link](#) you will find more information about the complaint management of our certification partner and your rights.

Further courses

- [DevOps Engineering Foundation \(«DEVEN»\)](#)
- [DevOps Leader \(«DEVLEK»\)](#)
- [Observability Foundation \(«DEVOBS»\)](#)

Any questions?



We are happy to advise you on +41 44 447 21 21 or info@digicomp.ch. You can find detailed information about dates on www.digicomp.ch/courses-service-project-management/devops/course-site-reliability-engineering-sre-foundation