

DevOps Institute: Site Reliability Engineering Practitioner (SREP)[®] - Including Exam

Varighed: 3 Days Kursus Kode: DEVSREP Version: v 1.1 Leveringsmetode: Company event (Firmakursus)

Beskrivelse:

The SRE (Site Reliability Engineering) Practitioner course introduces ways to economically and reliably scale services in an organization. It explores strategies to improve agility, cross-functional collaboration, and transparency of health of services towards building resiliency by design, automation and closed loop remediations.

The course aims to equip participants with the practices, methods, and tools to engage people across the organization involved in reliability 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 implementing SRE models that fit their organizational context, building advanced observability in distributed systems, building resiliency by design and effective incident responses using SRE practices.

The course is 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 Practitioner certification exam.

Firmakursus

Med et firmakursus bliver jeres it-kompetenceudvikling målrettet jeres behov. Det betyder, at vi hjælper med at finde og sammensætte det helt rigtige kursusindhold og den helt rigtige form. Kurset kan afvikles hos os eller kunden, standard eller virtuelt.

Målgruppe:

The target audience for the SRE Practitioner course are professionals including: Anyone focused on large-scale service scalability and 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
Tool Providers

Agenda:

- At the end of the course, the following learning objectives are expected to be achieved:
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 - Practical view of how to successfully implement a flourishing SRE culture in your organization.
 - The underlying principles of SRE and an understanding of what it is not in terms of anti-patterns, and how you become aware of them to avoid them.
 - The organizational impact of introducing SRE.
 - Acing the art of SLIs and SLOs in a distributed ecosystem and extending the usage of Error Budgets beyond the normal to innovate and avoid risks.
 - Building security and resilience by design in a distributed, zero-trust environment.
 - How do you implement full stack observability, distributed tracing and bring about an Observability-driven development culture?
- Curating data using AI to move from reactive to proactive and predictive incident management. Also, how you use DataOps to build clean data lineage.
- Why is Platform Engineering so important in building consistency and predictability of SRE culture?
- Implementing practical Chaos Engineering.
- Major incident response responsibilities for a SRE based on incident command framework, and examples of anatomy of unmanaged incidents.
- Perspective of why SRE can be considered as the purest implementation of DevOps.
- SRE Execution model
- Understanding the SRE role and understanding why reliability is everyone's problem.
- SRE success story learnings

Forudsætninger:

It is highly recommended that learners attend the SRE Foundation course with an accredited DevOps Institute Education Partner and earn the SRE Foundation certification prior to attending the SRE Practitioner course and exam. An understanding and knowledge of common SRE terminology, concepts, principles and related work experience are recommended.

Test og certificering

Successfully passing (65%) the 90-minute examination, consisting of 40 multiple-choice questions, leads to the SRE Practitioner certificate. The certification is governed and maintained by DevOps Institute.

Indhold:

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| Course Introduction | Module 4: Full-Stack Observability | Module 8: SRE is the Purest form of DevOps |
| Module 1: SRE Anti-patterns | Module 5: Platform Engineering and AIOps | Post-class assignments/exercises |
| Module 2: SLO is a Proxy for Customer Happiness | Module 6: SRE ; Incident Response Management | |
| Module 3: Building Secure and Reliable Systems | Module 7: Chaos Engineering | |

Additional Information:

LEARNER MATERIALS Twenty-four (24) hours of instructor-led training and exercise facilitation
Learner Manual (excellent post-class reference)
Participation in unique exercises designed to apply concepts
Sample documents, templates, tools and techniques
Access to additional value-added resources and communities

Flere Informationer:

For yderligere informationer eller booking af kursus, kontakt os på tlf.nr.: 44 88 18 00

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