

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

Durée: 3 Jours **Réf de cours: DEVSREP** **Version: v 1.1** **Méthodes d'apprentissage: Classe à distance**

Résumé:

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.

Classe à Distance - site Client

Cette formation peut être suivie à distance en synchrone depuis n'importe quel site pourvu d'une connexion internet (2 Mb/s en symétrique recommandés). Le programme (théorie et pratique) suit le même déroulé pédagogique qu'en présentiel. La solution technologique adoptée permet aux apprenants à distance de suivre les présentations faites au tableau, de voir et d'entendre l'instructeur et les participants en temps réel, mais également d'échanger avec eux.

Public visé:

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

Objectifs pédagogiques:

- At the end of the course, the following learning objectives are expected to be achieved:
 - Curating data using AI to move from reactive to proactive and predictive incident management. Also, how you use DataOps to build clean data lineage.
- Practical view of how to successfully implement a flourishing SRE culture in your organization.
 - Why is Platform Engineering so important in building consistency and predictability of SRE culture?
 - Implementing practical Chaos Engineering.
- 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.
 - Major incident response responsibilities for a SRE based on incident command framework, and examples of anatomy of unmanaged incidents.
- The organizational impact of introducing SRE.
 - Perspective of why SRE can be considered as the purest implementation of DevOps.
 - SRE Execution model
- 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.
 - Understanding the SRE role and understanding why reliability is everyone's problem.
 - SRE success story learnings
- 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?

Pré-requis:

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 et certification

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.

Contenu:

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	

Méthodes pédagogiques :

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

Autres moyens pédagogiques et de suivi:

- Compétence du formateur : Les experts qui animent la formation sont des spécialistes des matières abordées et ont au minimum cinq ans d'expérience d'animation. Nos équipes ont validé à la fois leurs connaissances techniques (certifications le cas échéant) ainsi que leur compétence pédagogique.
- Suivi d'exécution : Une feuille d'émargement par demi-journée de présence est signée par tous les participants et le formateur.
- En fin de formation, le participant est invité à s'auto-évaluer sur l'atteinte des objectifs énoncés, et à répondre à un questionnaire de satisfaction qui sera ensuite étudié par nos équipes pédagogiques en vue de maintenir et d'améliorer la qualité de nos prestations.

Délais d'inscription :

- Vous pouvez vous inscrire sur l'une de nos sessions planifiées en inter-entreprises jusqu'à 5 jours ouvrés avant le début de la formation sous réserve de disponibilité de places et de labs le cas échéant.
- Votre place sera confirmée à la réception d'un devis ou "booking form" signé. Vous recevrez ensuite la convocation et les modalités d'accès en présentiel ou distanciel.
- Attention, si cette formation est éligible au Compte Personnel de Formation, vous devrez respecter un délai minimum et non négociable fixé à 11 jours ouvrés avant le début de la session pour vous inscrire via moncompteformation.gouv.fr.

Accueil des bénéficiaires :

- En cas de handicap : plus d'info sur globalknowledge.fr/handicap
- Le Règlement intérieur est disponible sur globalknowledge.fr/reglement