

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

**Duration: 3 Days    Course Code: DEVSREP    Version: v 1.1    Delivery Method: Virtual Learning**

### Overview:

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.

### Virtual Learning

This interactive training can be taken from any location, your office or home and is delivered by a trainer. This training does not have any delegates in the class with the instructor, since all delegates are virtually connected. Virtual delegates do not travel to this course, Global Knowledge will send you all the information needed before the start of the course and you can test the logins.

### Target Audience:

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

### Objectives:

- 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?
- 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.
  - Implementing practical Chaos Engineering.
- The organizational impact of introducing SRE.
  - Major incident response responsibilities for a SRE based on incident command framework, and examples of anatomy of unmanaged incidents.
- 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.
  - Perspective of why SRE can be considered as the purest implementation of DevOps.
- Building security and resilience by design in a distributed, zero-trust environment.
  - SRE Execution model
- How do you implement full stack observability, distributed tracing and bring about an Observability-driven development culture?
  - Understanding the SRE role and understanding why reliability is everyone's problem.
  - SRE success story learnings

## Prerequisites:

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.

## Testing and 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.

## Content:

|                                                 |                                              |                                            |
|-------------------------------------------------|----------------------------------------------|--------------------------------------------|
| 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

## Further Information:

For More information, or to book your course, please call us on 00 20 (0) 2 2269 1982 or 16142

[training@globalknowledge.com.eg](mailto:training@globalknowledge.com.eg)

[www.globalknowledge.com/en-eg/](http://www.globalknowledge.com/en-eg/)

Global Knowledge, 16 Moustafa Refaat St. Block 1137, Sheraton Buildings, Heliopolis, Cairo