

## Site Reliability Engineering (SRE) Foundation

*The SRE (Site Reliability Engineering) Foundation certification eLearning course is an introduction to the principles & 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 & automation, and the adoption of a range of new working paradigms. This online course highlights the evolution of SRE and its future direction, and discusses the practices, methods, and tools to engage people across the organization involved in reliability and stability.*

**Durée:** 5.00 heures (1.00 jours)

### Profils des apprenants

- 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
- Tool Providers

### Prérequis

- An understanding and knowledge of common DevOps terminology and concepts and related work experience are recommended.

### Accessibilité

For people with disabilities, it is mandatory to contact us before signing the training's contract. We will organize a call in order to define adjustments that may be needed, to be able to attend the training course in the best conditions.

Please contact us by writing to : [contact@adservio.academy](mailto:contact@adservio.academy)

### Délais d'accès

1 jour

### Objectifs pédagogiques

- 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

## Contenu de la formation

- Course Introduction (5 min)
  - Course Goals
  - Course Agenda
- Module 1: SRE Principles & Practices (17 min)
  - What is Site Reliability Engineering?
  - SRE & DevOps: What is the Difference?
  - SRE Principles & Practices
- Module 2: Service Level Objectives & Error Budgets (28 min)
  - Service Level Objectives (SLO's)
  - Error Budgets
  - Error Budget Policies
- Module 3: Reducing Toil (22 min)
  - What is Toil?
  - Why is Toil Bad?
  - Doing Something About Toil
- Module 4: Monitoring & Service Level Indicators (38 min)
  - Service Level Indicators (SLI's)
  - Monitoring
  - Observability
- Module 5: SRE Tools & Automation (34 min)
  - Automation Defined
  - Automation Focus
  - Hierarchy of Automation Types
  - Secure Automation
  - Automation Tools
- Module 6: Anti-Fragility & Learning from Failure (35 min)
  - Why Learn from Failure
  - Benefits of Anti-Fragility
  - Shifting the Organizational Balance
- Module 7: Organizational Impact of SRE (54 min)
  - Why Organizations Embrace SRE

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- Patterns for SRE Adoption
- On-Call Necessities
- Blameless Post-Mortems
- SRE & Scale
- Module 8: SRE, Other Frameworks, The Future (20 min)
  - SRE & Other Frameworks
  - The Future
- Additional Sources of Information
- Exam Preparations
  - Exam Requirements, Question Weighting, and Terminology List
  - Sample Exam Review

## Organisation de la formation

### Équipe pédagogique

This training is provided and designed by DevOps Institute.

### Moyens pédagogiques et techniques

- Approximately 4-5 hours of learning videos
- DevOps glossary
- Access to additional value-added resources and communities

### Dispositif de suivi de l'exécution de l'évaluation des résultats de la formation

- Sample exams

**Prix** : 700.00 euros HT