PURPLE GRIFFON
The IT Service Management Training & Consultancy Specialists

Course Title: Site Reliability Engineering (SRE) Foundation	**Course Duration**: 2.0 Days
Exam: Included	**Exam Type**: Proctored Exam
Qualification: Site Reliability Engineering (SRE) Foundation? Certificate	

Course Syllabus

Course Introduction

- Course Goals
- Course Agenda

Module 1: SRE Principles & Practices

- What is Site Reliability Engineering?
- SRE & DevOps: What is the Difference?
- SRE Principles & Practices

Module 2: Service Level Objectives & Error Budgets

- Service Level Objectives (SLO's)
- Error Budgets
- Error Budget Policies

Module 3: Reducing Toil

- What is Toil?
- Why is Toil Bad?
- Doing Something About Toil

Module 4: Monitoring & Service Level Indicators

- Service Level Indicators (SLI's)
- Monitoring
- Observability

Module 5: SRE Tools & Automation

- Automation Defined
- Automation Focus
- Hierarchy of Automation Types
- Secure Automation
- Automation Tools

Module 6: Anti-Fragility & Learning from Failure

- Why Learn from Failure

- Benefits of Anti-Fragility
- Shifting the Organizational Balance

Module 7: Organizational Impact Of SRE

- Why Organizations Embrace SRE
- Patterns for SRE Adoption
- On-Call Necessities
- Blameless Post-Mortems
- SRE & Scale

Module 8: SRE, Other Frameworks, The Future

- SRE & Other Frameworks
- The Future

Exam Preparations

- Exam Requirements, Question Weighting, and Terminology List
- Sample Exam Review

Course Overview

Our two-day Site Reliability Engineering (SRE) Foundation? training course Introduces a range of practices for improving service reliability through a mixture of automation, working methods and organisational re-alignment. Tailored for those focused on large-scale service availability.

Our Site Reliability Engineering (SRE) Foundation? training course highlights the evolution of SRE and its future direction, and equips participants with the practices, methods, and tools to engage people across the organization involved in reliability and stability evidenced through the use of real-life scenarios and case stories.

Course Learning Outcomes

Our Site Reliability Engineering (SRE) Foundation? training course will enable you to improve service reliability and system resiliency in an ever-changing world and environment.

SRE has become one of the fastest growing job roles to maintain the highest possible service availability.

Automation is a key aspect of SRE for more efficient and rapid deployments.

SRE teams are responsible for designing, building, and maintaining the infrastructure and systems that support software applications.

Our Site Reliability Engineering (SRE) Foundation? training course includes monitoring and troubleshooting issues, implementing automation to reduce manual labour, and continuously improving processes and systems to prevent future problems.

SRE is often seen as a combination of development and operations (DevOps) practices.

Audience

The target audience for our Site Reliability Engineering (SRE) Foundation? are professionals including:

- Anyone starting or leading a move towards increased reliability
- Anyone interested in modern IT leadership and organisational 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

Entry-Level Requirements

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

Recommended Reading

You must read the learner manual, which is also an excellent post-class reference.

What's Included

You will receive the following as part of this Site Reliability Engineering (SRE) Foundation? training course:

- Sixteen (16) 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

Exam Information

Site Reliability Engineering (SRE) Foundation? Examination:

- Duration: 1 Hour
- Questions: 40 Multiple-Choice
- Passing Score: 65%
- Certification Validity: 2 Years
- Pass Mark: 26/40

The certification is governed, administered and maintained by the DevOps Institute.

What's Next

Our two-day DOI DevOps Foundation training course provides a baseline understanding of key DevOps terminology to ensure everyone is talking the same language and highlights the benefits of DevOps to support organisational success.

Our DOI DevOps Foundation training course will show you how DevOps can be used to support organisational efforts in reducing costs while increasing agility, quality and customer service.

Additional Information

Upon completion of the course, you will have tangible takeaways to leverage when back in the office such as understanding, setting and tracking Service Level Objectives (SLO's). Our Site Reliability Engineering (SRE) Foundation? training course was developed by leveraging key SRE sources, engaging with thought leaders in the SRE space and working with organisations embracing SRE to extract real life best practices and has been designed to teach the key principles & practices necessary for starting SRE adoption.

Our Site Reliability Engineering (SRE) Foundation? training course will help you qualify for in-demand roles such as:

- Business Manager
- Business Stakeholder
- Change Agent
- Consultant
- DevOps Practitioner
- IT Director
- IT Manager
- IT Team Leader
- Product Owner
- Scrum Master
- Software Engineer
- Site Reliability Engineer
- System Integrator
- Tool Provider