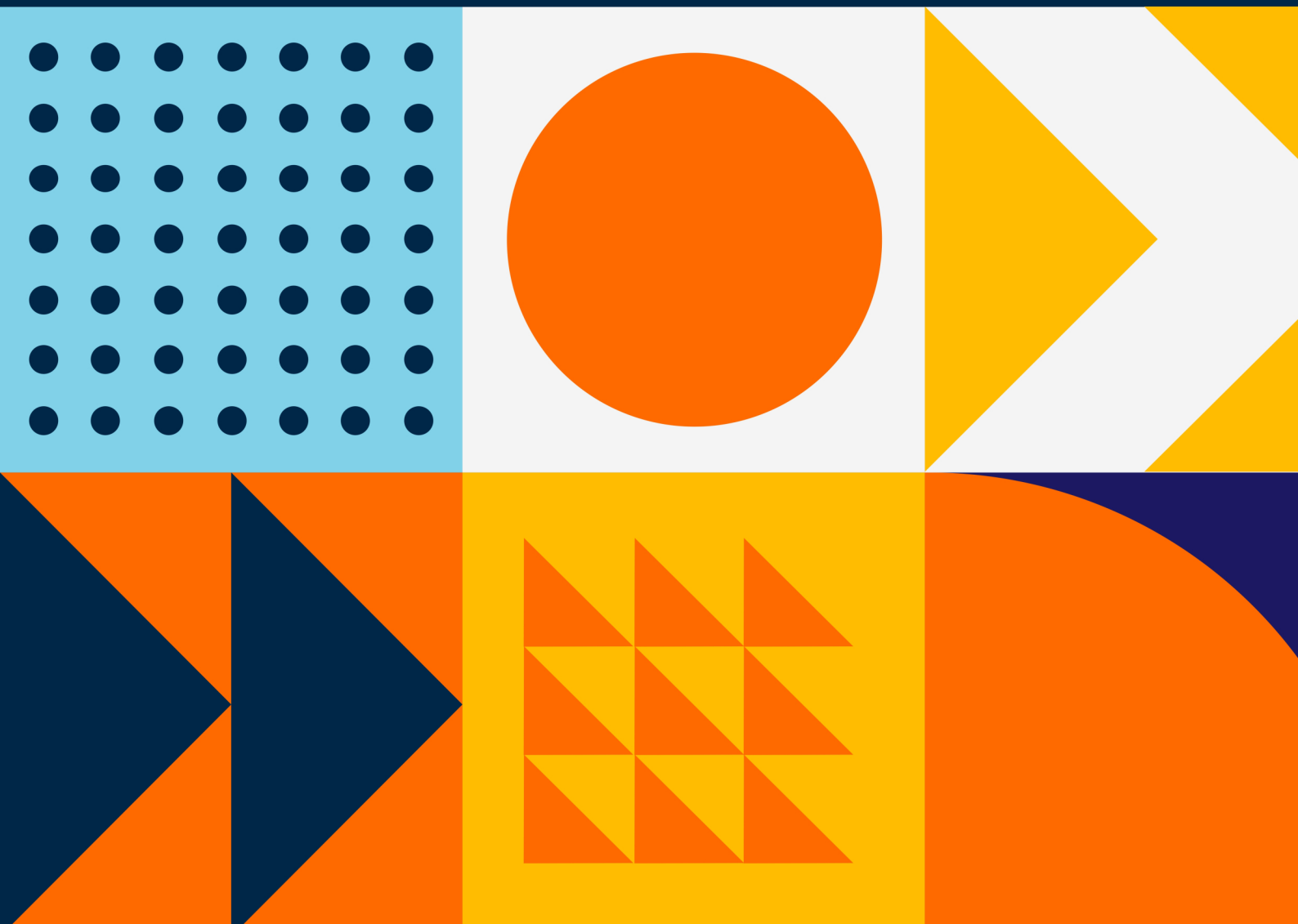




We do **IT**
to inspire.

Agile, Scrum & DevOps:

DevOps Site Reliability Engineering (SRE) Practitioner Training





About Us

who we are.

Averest is one of the leading and fast-growing companies specialising in Information Technologies, Cyber Security, Cloud Computing, DevOps, Artificial Intelligence, Agile and Scrum, and Project Management, which is based in the United Kingdom and Turkey. Averest provides high-quality tech-accredited training and business solutions to its clients on these topics and more.

Why You Should Learn With Us?

We offer accredited Programs that are available for anyone wishing to acquire skills and gain professional certification to take their career to the next level.

100+ Premium Programs

Choose the appropriate program, date and region for your occupation.

50+ World-Wide Accredited Certifications

Get certified by global certification bodies and deepen your expertise.

500+ Expert Advisors

Get together with professional trainers who are experts in their professions.

100.000+ Professionals Trained

We help many of the world's leading companies to build their tech and digital capabilities.



Our partners.



To Explore More Please Visit [Our Website](#)

Program

DevOps Site Reliability Engineering (SRE) Practitioner Training

Overview

Through the use of real-life situations and case studies, the course seeks to provide learners with the techniques, methodologies, and resources needed to engage individuals throughout the organization interested in dependability. Participants will have tangible takeaways to leverage when they return to 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, after completing the course.

What You Will Learn?

- Successfully establish a thriving SRE culture in your organization.
- Manage the organizational implications of SRE implementation.
- In a distributed, zero-trust system, design security and resilience.
- Prepare for the DevOps Institute SRE Practitioner test.
- Participation in one-of-a-kind exercises designed to put principles into practice
- Obtain examples of documents, templates, tools, and procedures.
- Access to more valuable resources and communities
- Continue your education and confront new difficulties with one-on-one instructor tutoring after the course.

Course Key Features

- Pre-course consultation
- Exam voucher included
- Access to DevOps Institute additional sources of information and communities
- Real-Life case studies are weaved throughout the course
- After-course coaching available

Eligibility

Anyone starting or leading a DevOps cultural transformation program
Anyone interested in modern IT leadership and organizational change approaches
Business Managers
Change Agents
DevOps Consultants
DevOps Engineers
IT Managers
Lean Coaches
Practitioners
Product Owners
Scrum Master

Program

DevOps Site Reliability Engineering (SRE) Practitioner Training

Program Outline

SRE Anti-patterns

- Rebranding Ops or DevOps or Dev as SRE
- Users notice an issue before you do
- Measuring until my Edge
- False positives are worse than no alerts
- Configuration management trap for snowflakes
- The Dogpile: Mob incident response
- Point fixing
- Production Readiness Gatekeeper
- Fail-Safe?

Building Secure and Reliable Systems

- SRE and their role in Building Secure and Reliable systems
- Design for Changing Architecture
- Fault-tolerant Design
- Design for Security
- Design for Resiliency
- Design for Scalability

SLO is a Proxy for Customer Happiness

- Define SLIs that meaningfully measure the reliability of a service from a user's perspective
- Defining System boundaries in a distributed ecosystem for defining correct SLIs
- Use error budgets to help your team have better discussions and make better data-driven decisions
- Overall, reliability is only as good as the weakest link on your service graph
- Error thresholds when 3rd party services are used

Full-Stack Observability

- Modern Apps are Complex & Unpredictable
- Slow is the new down
- Pillars of Observability
- Implementing Synthetic and End-user monitoring
- Observability driven development
- Distributed Tracing
- What happens to the monitor?

Program

DevOps Site Reliability Engineering (SRE) Practitioner Training

- Design for Performance
- Design for Reliability
- Ensuring Data Security and Privacy

- Instrumenting using Libraries and Agents

Platform Engineering and AIOps

- Taking a Platform Centric View solves Organizational scalability challenges such as fragmentation, inconsistency, and unpredictability
- How do you use AIOps to improve resiliency?
- How can DataOps help you in the journey?
- A simple recipe to implement AIOps
- Indicative measurement of AIOps

SRE & Incident Response Management

- SRE Key Responsibilities towards incident response
- DevOps & SRE and ITIL
- OODA and SRE Incident Response
- Closed Loop Remediation and the Advantages
- Swarming – Food for Thought
- AI/ML for better incident management

Chaos Engineering

- Navigating Complexity
- Chaos Engineering Defined
- Quick Facts about Chaos Engineering
- Chaos Monkey Origin Story
- Who is adopting Chaos Engineering?
- Myths of Chaos
- Chaos Engineering Experiments
- GameDay Exercises
- Security Chaos Engineering

SRE is the Purest form of DevOps

- Key Principles of SRE
- SREs help increase reliability across the product spectrum
- Metrics for Success
- Selection of Target areas
- SRE Execution Model
- Culture and Behavioral Skills are key
- SRE Case study

Program

DevOps Site Reliability Engineering (SRE) Practitioner Training

- Chaos Engineering Resources

Program

DevOps Site Reliability Engineering (SRE) Practitioner Training

Program Schedule



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