



CERTIFICATION

# DASA SRE NEXT GEN

Empower your team to lead in a world where reliability, scalability, and sustainability are non-negotiable.

16 HOURS • PROFESSIONAL LEVEL

DASA CERTIFICATIONS ARE VALUED BY  
PROFESSIONALS FROM LEADING ORGANIZATIONS





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## MEET DASA

# Where Will the World's Largest DevOps and Agile Industry Body Take You?

DASA is the world's largest DevOps and Agile industry body, fostering creation of practical guidance and talent development solutions towards building high performance IT functions.

DASA manages platforms where experts, leaders, and practitioners from IT functions participate to learn through communities, workshops, and structured talent development solutions.

DASA facilitates continuous talent development and nurturing for several key existing and emerging roles within high performance teams and functions.

With 300+ member and partner organizations in our ecosystem, DASA helps define, inform, and advance the DevOps industry through networking, knowledge sharing, awards, continuous learning, and certifications.



2016  
Founded



300+  
Organizational Partners



50+  
Countries



20k+  
Certified Professionals



40K+  
Community Members

## DASA SRE NEXT GEN

# Next-generation reliability for the AI-powered and sustainable enterprise

### The DASA SRE Next Gen

Certification gives you the skills, mindset, and behaviors to align reliability practices with business goals, leverage AI and automation, and optimize system resilience and scalability—while ensuring sustainability. Learn how to build and operate highly reliable, efficient, and future-proof digital services.



## Modules

- 01 Introduction to SRE
- 02 The Need for SRE Next Gen
- 03 Observability - Adapting to the Evolving IT Landscape
- 04 Building Resilient Software
- 05 Addressing AI Reliability
- 06 Designing for Success
- 07 Aligning SRE with Sustainability Goals
- 08 Organizational Structure, Culture, and Governance Models
- 09 Driving Reliability Through Operational Excellence
- 10 Strategic Cost Analysis and Resource Optimization



## LEARNING OBJECTIVES

# What You Will Be Able to Do After Completing This Certification



Adapt SRE practices to the evolving IT landscape, including AI and automation.



Implement observability practices for optimal system monitoring.



Design resilient, scalable, and reliable software systems.



Promote sustainability within SRE practices.



Consider the impact of organizational culture and governance in system reliability.



Optimize cost while maintaining operational reliability.

## Is This for Me?

This training is ideal for professionals who want to enhance their SRE knowledge and skills. It is suitable for:

- IT professionals with 3+ years of experience, looking to deepen their knowledge and skills in SRE practices.
- Individuals eager to adapt SRE to the evolving landscape of technology, particularly in areas like AI, automation, and cloud computing.
- Professionals involved in budgeting and financial management for SRE practices.

## MODULES

# What Will You Learn

### MODULE 01

#### Introduction to SRE

Understand Site Reliability Engineering (SRE), its principles, terminologies, and its critical role in ensuring software reliability in modern IT environments.

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Define SRE and its significance in today's software ecosystems.

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Describe common SRE terminologies to establish a shared understanding of key concepts.

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Identify challenges in modern software environments that make SRE essential for operational success.

### MODULE 02

#### The Need for SRE Next Gen

Explain the changing IT landscape and its impact on SRE leading to SRE Next Gen.

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Discuss the limitations of traditional SRE practices and the emergence of "SRE Next Gen".

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Highlight the new skill sets and tools needed for SRE professionals.

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Discuss the evolving relationship between development, operations, and reliability teams in the SRE Next Gen environment.

### MODULE 03

#### Observability - Adapting to the Evolving IT Landscape

Analyze the impact of changed IT landscapes resulting in enhanced observability practices for optimal system monitoring.

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Define observability and monitoring within the context of modern IT systems.

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Analyze how evolving IT infrastructure necessitates a shift in traditional monitoring practices.

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Develop skills to design and implement telemetry strategies that enhance observability.

### MODULE 04

#### Building Resilient Software

Apply strategies and execution methods for building resilient software that can withstand failure and recover effectively.

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Define the principles of software resilience, its importance, and its role in modern systems.

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Identify common failure modes, their impacts on software systems.

## MODULES

# What Will You Learn

### MODULE 05

#### Addressing AI Reliability

Discuss the challenges and solutions related to AI model reliability, monitoring, and failure modes in production environments.

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Identify common failure modes in AI models and systems that impact overall reliability.

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Provide actionable recommendations for improving the reliability and robustness of AI systems.

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Discuss the challenges and solutions related to AI model reliability, monitoring, and handling failure modes in production environments.

### MODULE 06

#### Designing for Success

Design for scalability, reliability, quality, and standards from the initiation of product development.

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Explain the core design principles for ensuring scalability, reliability.

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Explore best practices for maintaining quality and adhering to industry standards throughout the development lifecycle.

### MODULE 07

#### Aligning SRE with Sustainability Goals

Explore the principles of Green SRE, discover methods to integrate sustainability into operations, and learn how to measure and optimize the environmental impact.

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Define the concept of Green SRE, its relationship with sustainability practices.

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Create a plan for integrating energy-efficient practices into SRE operations.

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Measure the energy efficiency of software projects and identify sustainability metrics.

### MODULE 08

#### Organizational Structure, Culture, and Governance Models

Analyze how organizational structure, culture, and governance models affect reliability at scale.

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Analyze the impact of organizational structure, culture, and governance models on achieving reliability at scale.

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Explain the importance of governance models in aligning business objectives with technical reliability goals.

## MODULES

# What Will You Learn

### MODULE 09

#### Driving Reliability Through Operational Excellence

Explain the importance of operational excellence to drive system reliability.

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Define operational excellence and its critical role in ensuring system reliability.

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Explain how incident response frameworks contribute to improving reliability and minimizing disruptions.

### MODULE 10

#### Strategic Cost Analysis and Resource Optimization

Identify strategies for optimizing resource allocation and managing costs while maintaining operational reliability.

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Identify cost drivers in SRE and develop effective budgeting strategies for resource allocation.

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Explore best practices for optimizing cost efficiency throughout the development and deployment lifecycle.



# Validate and Recognize Your Expertise

Achieving certification and earning the digital badge from DASA validates your expertise and proficiency.

Recognized globally, DASA certifications serve as a trusted benchmark of professional competency in the field.

Upon successfully passing the exam, you will be awarded a DASA digital badge and the relevant digital certificate, enhancing your professional profile.

This recognition not only highlights your achievement but also boosts your CV's credibility and gives you a competitive edge in the job market.



## Exam Details

Delivery	AI Proctored
Format	Closed-book
Proctoring	Automated
Duration	80 minutes
Questions	40 Questions
Pass Grade	65%

## BENEFITS TO THE BUSINESS

# Expected Business Results from SRE Next Gen



### Proactive Reliability

Leverage AI-powered monitoring and predictive analytics to prevent issues before they impact customers.

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### Alignment with Sustainability Goals

Adopt green SRE practices to reduce environmental impact, aligning IT operations with corporate responsibility.

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### Faster Time-to-Recovery

Implement self-healing systems that detect and resolve issues automatically, reducing recovery times and minimizing downtime.

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### Enhanced Business Value

Turn reliability into a strategic advantage by enabling faster delivery of new features and services in a competitive market.

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### Faster Incident Recovery

Leverage automation and proactive monitoring to minimize the impact of incidents and recover faster.

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### Better Collaboration Across Teams

Foster a culture of shared responsibility and synergy between development, operations, and business teams.

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