

DevOps Training Series: Site Reliability Engineering (SRE) Foundation™

CODE

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Course Fee: HK\$7,800 (May apply up to HK\$5,200 subsidy) *Maximum saving, with the final grant subjects to approval.

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This course introduce the principles and 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 and automation, and the adoption of a range of new working paradigms.

NITTP Training Grant Application Companies should submit their NITTP training grant application for their employee(s) via <u>https://nittp.vtc.edu.hk/rttp/login</u> at least two weeks before course commencement. Alternatively, application form could be submitted by email to <u>nittp@vtc.edu.hk</u> along with supporting documents.

Programme code	10014313
Duration and time	2 days 9:30-17:30
/enue	1/F, HKPC Building, 78 Tat Chee Avenue, Kowloon Tong
anguage	Cantonese, supplemented with English terminology
Course fee	HK\$7,800 (May apply up to HK\$5,200* subsidy)
Prerequisite	An understanding and knowledge of common DevOps terminology and concepts and related work experience are recommended.
Certification	Successfully passing (65%) the 60- minute examination, consisting of 40 multiple-choice questions, leads to the SRE Foundation certificate . The certification is governed and maintained by the DevOps Institute.

Course Description

Highlighting the evolution of SRE and its future direction, this course will equip 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. Upon completion of the course, participants will have tangible takeaways to leverage when back in the office such as understanding, setting and tracking Service Level Objectives (SLO's).

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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 to teach the key principles and practices necessary for starting SRE adoption. This course positions participants to successfully complete the SRE Foundation certification exam.

This course is an approved New Industrialisation and Technology Training Programme" (NITTP), which offers up to 2/3 course fee reimbursement upon successful applications. For details: https://nittp.vtc.edu.hk/.



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Course Objectives

The learning objectives include a practical understanding of:

- ✓ 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

Course Outline

Introduction

Course Goals & 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 Shifting the Organizational Balance 	 Module 8: SRE, Other Frameworks, The Future SRE & Other Frameworks The Future 	
Additional Sources of Information		

Exam Preparations

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



Target Audience

- Anyone starting or leading a move towards increased reliability
- Anyone interested in modern IT leadership and organizational change approaches
- The target for IT professionals including:
- 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

Trainer Information

Paulino KOK has over 30 years experience in the technology field holding various positions from application development, infrastructure technology, portfolio, program & project management, service management, security & risk management, leadership coaching, innovation design thinking facilitation, employment engagement & HR people operations, and agile & digital transformation. He has worked for financial, manufacturing and retail industries of multi-national companies, of which two are components of the Dow Jones Industrial Index and Fortune 100 Best Companies. Paulino is an accredited Trainer of DevOps Institute.

Winson Li is an esteemed IT veteran and certified DevOps & SRE educator with over 23 years in the field. He specializes in the Agile Framework, Cloud Infrastructure, and business transformation. Known for transforming start-ups into profitable entities and adept at managing complex global projects, Winson's experience in the Greater China region enhances his fluency in leading technical teams.

Enrolment Methods

1. Scan the QR code to complete the enrolment and payment online OR

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 Mail the crossed cheque with payee name "Hong Kong Productivity Council" (in HK dollar) to HKPC Academy, Hong Kong Productivity Council, 3/F, HKPC Building, 78 Tat Chee Avenue, Kowloon (attention to Mr Desmond CHAN). Please indicate the course name and course code on the envelope.



Enrolment Link

Hong Kong Software Industry Association

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Supporting Organisations (In arbitrary order)







Inquiry

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