

IMPLEMENTING SITE RELIABILITY ENGINEERING

[3] Days Classroom

[3] Days Live Online

Individual: [\$2450]

Group: [\$2350]

GSA: [\$2340]

REGISTER HERE:

www.cprime.com/learning

COURSE OVERVIEW

Learn SRE best practices from an industry-expert and begin automating, monitoring, troubleshooting, and improving your systems.

This three-day course will walk through the book Site Reliability Engineering: How Google Runs Production Systems, edited by Betsy Beyer, Chris Jones, Jennifer Petoff, and Niall Richard Murphy. During the course, you will learn about Google's approach to service management, gain an understanding of the basics of site reliability engineering, and get an introduction to advanced topics.

COURSE OUTLINE

Part 1: Introduction

1. Introduction
2. The Production Environment at Google, From the Viewpoint of an SRE
3. Exercise: Mapping Your Production Environment

Part 2: Configuring Azure DevOps for your ARTs and Teams

1. Embracing Risk
2. Service-Level Objectives
3. Eliminating Toil
4. Monitoring Distributed Systems
5. The Evolution of Automation at Google
6. Release Engineering
7. Simplicity

Part 3: Practices

1. Practical Alerting
2. Being On-Call
3. Effective Troubleshooting
4. Emergency Response
5. Managing Incidents
6. Postmortem Culture: Learning from Failure
7. Tracking Outages
8. Testing for Reliability
9. Software Engineering in SRE

10. Load Balancing at the Front End
11. Load Balancing in the Datacenter
12. Handling Overload
13. Addressing Cascading Failures
14. Managing Critical State: Distributed Consensus for Reliability
15. Distributed Periodic Scheduling with Cron
16. Data Processing Pipelines
17. Data Integrity: What You Read Is What You Wrote
18. Reliable Product Launches at Scale

Part 4: Management

1. Accelerating SREs to On-Call and Beyond
2. Dealing with Interrupts
3. Embedding an SRE to Recover from Operational Overload
4. Communication and Collaboration in SRE
5. The Evolving SRE Engagement Model

Part 5: Conclusions

1. Lessons Learned From Other Industries
2. Conclusion

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