Red Hat Training: DevOps Culture and Practice Enablement (DO500)

Course Outline

What is DevOps?

Brainstorm and explore what principles, practices, and cultural elements make up a DevOps model for software design and development.

Pairing and mobbing

Discuss and experience two foundational practices: pair programming and mob programming.

Retrospectives, information radiators, and team sentiment

Examine the value of conducting retrospectives, visualizing work, and assessing team sentiment.

Impact mapping

Discuss the impact mapping discovery practice.

Agile practices

Cover agile practices, including sprint planning, daily standup, showcase, retrospective, and backlog refinement.

Value stream and process mapping

Delve into the practices of value stream mapping and metric-based process mapping.

Continuous integration, deployment, and delivery

Explore the foundational practices of continuous integration, continuous deployment, and continuous delivery.

Event storming

Learn how to use the event storming discovery practice.

User story mapping and value slicing

Examine the user story mapping, value slicing, and empathy mapping practices.

Automated testing, part 1

Develop an understanding of the test-driven development and business-driven development foundational practices, often referred to as automated testing.

Automated testing, part 2

Complete the automated testing lab begun in part 1.

Pipelines as code

Explore continuous integration/continuous delivery pipelines using Jenkins.

Non-functional testing

Discover the merits of non-functional testing.

Build monitoring

Understand how to monitor builds and graphically represent their status as an information radiator.

Demo day

Experiment with the optimal methods of producing a showcase and bring the class to a close.