



Școala
informală
de IT

Continuous Delivery Fundamentals Curriculum

Școala Informală de IT

Educație Informală S.A.

Tel: +4.0744.679.530

Web: www.scoalainformala.ro / www.informalschool.com

E-mail: info@scoalainformala.ro



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1. Software Delivery Process

- From idea to product
- Software Companies
- Waterfall -> Agile
- Agile Overview

2. Introduction to Continuous Delivery

- The problem of software Delivery
- What is Continuous Delivery?
- Automation
- Old Way
- AntiPatterns
- New way
- Principles

3. Tools overview (Most effective tools to Automate our process)

- Source Control Management
- CI tools
- Build Tools
- Testing tools
- Static code Analyze
- Deployment
- Configuration Management
- Monitoring
- Logging



4. Environment Setup

- Virtual Box
- Linux
- Java
- Jenkins
- Maven

5. Git Basic

- SCM
- Simple commands
- Branching strategy

6. Continuous Integration

- What is Continuous Integration
- How to
- Benefits

7. QA Automation

- What is QA Automation & the importance
- Testing Strategy / Testing Levels
- Feedback and Plan Improvements



8. Configuration Management

- What is Configuration Management
- Dealing with multiple environments
- Environment Detection
- Rethinking Configuration

9. Continuous Delivery vs Continuous Deployment

10. CD Pipeline

- What is a Deployment Pipeline?
- Define CD Pipeline Stages
 - Commit Stage
 - Build Stage
 - Automating Deployment
 - Testing Stages
 - Implementing a Deployment Pipeline

11. Zero Downtime Deployment

- Release Strategies
- Load Balancers
- Zero Downtime Deployment



12. Managing CD

13. Advanced - DevOps World, Cloud

DevOps World

- What's is DevOps
- DevOps Mythbusting
- DevOps Principles
- Implementing DevOps

Cloud in Software Delivery and DevOps World

- Why Cloud?
- On premises and Public Cloud
- AWS and/or Azure