

Training Pathways

This document describes the team training options and training pathways, created by Dave Farley and available from CD Ltd.

CONTENTS

- Part One: Introduction to CD.Training**
- Part Two: Our Range of Training Pathways**
- Part Three: Summary of the Training Modules**
- Part Four: Options for Bespoke Training Programmes**
- Part Five: Testimonials**

CONTACT

Please contact us for more information, a tailored quote, or to arrange a free consultation call to discuss your requirements, at:

courses@continuous-delivery.co.uk

"The absolute foundation of software engineering! If you want to learn how to build software, you should stop everything, forget anything you thought you knew about software engineering, and (re)start your training with this"

Part One

Introduction to CD.Training

CD.Training courses have been created by Dave Farley, incorporating his decades of experience and expertise in developing world-class software, consulting and delivering training for a wide range of organisations.

*Transform your software development process
Develop critical engineering skills at scale
More cost-effective and convenient than off-site training
Invest in team learning with minimal disruption to work priorities*

Dave's training programmes are not simple sit at a screen, tick-the-box courses! These programmes achieve real change in skill and practice, by combining information, explanation and implementation, with several hours of video lessons by Dave Farley, practical exercises, suggestions for wider exploration and learning, and the option of Follow-On Workshops with Dave.

These programmes can be studied by:

- [individuals](#) - flexibly, at their own pace, and in their own place: and,
- [in teams](#) - a cohort working together on the practical exercises, sharing the learning and exploring implications for working practices.

About Dave Farley

Dave Farley is a pioneer of Continuous Delivery, thought-leader and expert practitioner in CD, DevOps, TDD and software design. He was an early adopter of agile development techniques, employing iterative development, continuous integration and significant levels of automated testing, working in large scale distributed systems. Dave has a long track record in creating high-performance teams, shaping organisations for success, and creating outstanding software.

Dave is the managing director and founder of Continuous Delivery Ltd, one of the authors of the Reactive Manifesto, and a winner of the Duke Award for the open source LMAX Disruptor project. He is author of two best-selling books - "Continuous Delivery" and "Modern Software Engineering", founder of the CD.Training school and creator of the popular CD YouTube channel.

Find Dave here:

Twitter:	@davefarley77
YouTube Channel:	https://www.youtube.com/c/ContinuousDelivery
Patreon:	https://www.patreon.com/continuousdelivery
WebSite:	https://www.continuous-delivery.co.uk
Training:	https://courses.cd.training

Part Two

Training Pathways

Our range of on-line training programmes are organised into Training Pathways, where software developers, teams and organisations can build expertise from one module to the next, to support your goal to create high quality software for your users.

Further information about each of the modules included in the Training Pathways can be found in Part Three

1. Building with Confidence

A training programme for software developers and development teams, to improve their software engineering skills, knowledge of Continuous Delivery and automated testing.

This programme will help develop shared approaches and language across teams, as part of a multi-disciplinary approach to software development, learning the essential engineering approach of working in small steps and using fast feedback to achieve a transformation in the quality and speed of software development.

This pathway includes the following modules:

- Continuous Delivery: Better Software Faster
- CD Assessment and Improvement Report
- TDD & BDD: Design Through Testing
- ATDD & BDD: From Stories to Executable Specifications

2. New Ways of Working

A programme for operations people, change agents, CD specialists and dev teams which focuses on CD foundations and a detailed understanding of Deployment Pipelines. Understand the principles and practices that shape and tailor CD adoption. Automate infrastructure and create a repeatable and reliable route to production. This pathway includes:

- Continuous Delivery: Better Software Faster
- CD Assessment and Improvement Report
- The Anatomy of a Deployment Pipeline

3. Engineering Excellence

A programme for software developers, technical leads, architects and CD specialists, which includes enhanced CD and automated testing skills and techniques for building, optimising and managing a deployment pipeline, effective test strategy and efficient automated testing to deliver better software faster. This pathway includes:

- Continuous Delivery: Better Software Faster
- CD Assessment and Improvement Report
- The Anatomy of a Deployment Pipeline
- TDD & BDD: Design Through Testing
- ATDD & BDD: From Stories to Executable Specifications

4. Quality Through Testing

This programme is a combination of two powerful testing techniques, for developers, tech-leads and architects to learn great test design, automation and infrastructure skills. Know how to analyse problems and specify ideas for new software and features in ways that are more understandable, through the creation and use of “Acceptance Tests” in the form of “Executable Specifications”. Use TDD to improve the design and quality of your software. Develop the skills and techniques to write long-lasting, stable, resilient tests, that lower defect-rates in your code, and reduce dependence on manual regression testing. This pathway includes:

- TDD & BDD: Design Through Testing
- ATDD & BDD: From Stories to Executable Specifications

5. From Good Ideas to Great Software

This programme is for product owners, business analysts and other non-technicians close to development. Progress from developing a common understanding and approach to the Continuous Delivery way of working; adopt a collaborative approach to analysing problems; and, and learn to write specifications for new software that are understandable and easier to share and communicate, more stable and resilient to change. This training pathway includes:

- Continuous Delivery: Better Software Faster
- Acceptance Testing with BDD

6. Leading Continuous Delivery

A programme for senior engineers, architects, senior operations, leaders and executives who want to understand and manage the technical and cultural impacts of adopting Continuous Delivery. Learn strategies to move from where you are now to where you want to be. Understand and overcome the barriers to change and so transform working practices to be able to write better software faster. This programme starts with:

- Continuous Delivery: Better Software Faster

and builds into

- Leading CD

a modular leadership programme combining on-line learning with regular coaching workshops with Dave Farley to provide ongoing support and advice to deliver these changes.

7. Transformation Programme

A programme in which all development teams, tech leads, operations, analysts, architects, QA and business leaders participate in complementary training. In combination, this programme of training will develop shared approaches and language across teams to achieve a transformation in the quality and speed of software development. The programme will include some common elements for all, and some designed specifically to suit people in different roles, i.e:

- Training for all, on the principles and essential techniques that are necessary for Continuous Delivery to work.
- Technical training for developers and architects, on Test Driven Development.
- Training in Acceptance Testing and BDD, for quality engineers, developers and product owners.
- Advanced Deployment Pipeline techniques, for senior developers and operations.
- Leading Continuous Delivery training for senior engineers, architects, senior operations, leaders and executives
- Workshops with Dave Farley to support and embed learning and new ways of working, as you make progress through your training programme.

Part Three

Training Modules

Our range of training programmes are comprised of the following modules:

- Continuous Delivery: Better Software Faster
- CD Assessment and Improvement
- Anatomy of a Deployment Pipeline
- TDD & BDD: Design Through Testing
- Understanding Acceptance Testing
- Acceptance Testing with BDD
- ATDD: Stories to Executable Specifications
- Leading CD
- Follow-On Workshops with Dave Farley

1. CD - Better Software Faster

This module guides you through the foundational principles and essential techniques that you can apply to get the benefits of Continuous Delivery for your software, your team and your business. Continuous Delivery is a holistic approach that encompasses technical, organisational and cultural performance. We cover all these aspects, and help you take it step-by-step and hone your approach over time, seeing incremental improvements to the quality and efficiency of your software.

2. CD Assessment and Improvement Report

How do you get to CD from where you are now? Dave Farley has identified 14 essential CD practices, which you can use as a 'checklist' to assess where your strengths are, find any gaps and get a tailored report from Dave to explore opportunities to improve.

3. Anatomy of a Deployment Pipeline

The Continuous Delivery Deployment Pipeline is a machine for organising the whole software development process, including all steps to go from new code to a deployable release, including all tests, version control, fast feedback and automation. This module will take you through each of these stages, learning best practices and techniques to turn new ideas into quality features for users quickly and reliably, improving the speed and efficiency of your software development process. We conclude with a Real World Example - where you can see a great working example of a Deployment Pipeline.

4. TDD & BDD: Design Through Testing

For software technicians, with demos by Dave Farley, and exercises to practise techniques, to help you learn how TDD and BDD combine to strengthen the design of your code,

improve your programming skills and significantly reduce bugs in production. We focus on the design aspects of Test Driven Development, not just about the basics of writing unit tests. You will learn: How to write long-lasting tests that are resilient to changes in your code; and How to create tests that improve the design of your code.

5. ATDD & BDD: From Stories to Executable Specifications

The most technical module in our Acceptance Testing collection, for the developers, programmers, engineers and software technologists who turn ideas for new products into software. This module builds incrementally from finding and capturing Stories and Examples, expressing requirements as outcomes, and translating them into Executable Specifications. You will learn the techniques for building durable tests and infrastructure for Automated Acceptance Testing.

6. Acceptance Testing with BDD

For Product Owners, QA/Testers, BAs and Technical Leads. Learn techniques to analyse problems, find Stories and Examples, so you can write Specifications for new software that are understandable, stable and resilient to change.

7. Understanding Acceptance Testing

For entrepreneurs and leaders, domain experts and specialists. Learn to create better requirements that communicate business goals and ideas for new features, with your technical colleagues, leading to resilient better-designed software.

8. Follow-On Workshops

To support the teams through their training, and help them to apply what they have learned in the context of their current systems and projects, Dave Farley can provide "Follow-On Workshops" to complement on-line learning. Typically remote sessions of 2-3 hours with each team or cohort.

9. Leading CD

A modular leadership programme, combining on-line learning with regular coaching workshops with Dave Farley. For senior engineers, architects, senior operations, leaders and executives who want to understand and manage the technical and cultural impacts of adopting Continuous Delivery. Learn strategies to overcome the barriers to change and transform working practices, to move from where you are now to where you want to be.

Part Four

Bespoke Training Programmes

As an alternative to the Training Pathways described in Part One, the CD.Training team can work with you to create a bespoke programme of training to suit your requirements and the software projects, systems and challenges you are currently working on.

However, we recommend the following packages to suit the various roles in your team or organisation:

a. Programmers and Development Teams

Continuous Delivery: Better Software Faster
CD Assessment and Improvement Report
TDD & BDD: Design Through Testing
ATDD & BDD: Stories to Executable Specifications
and Anatomy of a Deployment Pipeline for devs working on a Deployment Pipeline.

b. Operations

Continuous Delivery: Better Software Faster
Anatomy of a Deployment Pipeline
and Leading CD for Senior Ops

c. QAs and Analysts

Continuous Delivery: Better Software Faster
Acceptance Testing with BDD

d. Product Owners and Business Leaders

Continuous Delivery: Better Software Faster
Understanding Acceptance Testing
and Leading CD for Execs close to the dev process

e. Technical Leads and CD Specialists

Continuous Delivery: Better Software Faster
CD Assessment and Improvement Report
Anatomy of a Deployment Pipeline
TDD & BDD: Design Through Testing
ATDD: Stories to Executable Specifications

f. Architects

Continuous Delivery: Better Software Faster
Anatomy of a Deployment Pipeline
Acceptance Testing with BDD
Leading CD

Contact us to arrange a free consultation call to discuss your requirements, at:
courses@continuous-delivery.co.uk

Part Five

Testimonials

"Dave Farley's Continuous Delivery Ltd. courses have been instrumental in our software delivery transformation, bringing about visible improvements in speed, efficiency, and quality. I would recommend them to any organisation aiming to optimise their software delivery process"

- Chris Chomicki

"The absolute foundation of software engineering! If you want to learn how to build software, you should stop everything, forget anything you thought you knew about software engineering, and (re)start your training with this course."

- Panagiotis Badredin

"This amazing course is „customer focus in a box“! The ATDD & BDD course is just amazing! Never saw the topic being conveyed that clear and actionable."

- Christian Gesell

"Transformational! This course has deeply changed not only the way I see testing but the way I see software development as a whole, starting from requirements gathering to delivering and maintaining production software. I highly recommend it!"

- Francesc Castells

"Until taking this course I thought I knew what CD was all about. I thought our pipelines were encapsulating all that CD had to offer. I was wrong. In this course you'll learn what CD is really about, both the technical disciplines as well as the business and cultural implications. If you truly want to delivery value into the hands of your customers then this course is for you!"

- Jacob Hodges

"Game Changer. This course showed me how to increase the quality of our work and speed up development while having fun, all while spending more time actually writing code. Yes, all of the above at the same time!"

- Boyan Zlatanov

"Great Course for any organization. This is a great course that explains the importance of Continuous Delivery and gives instructions on how to apply it in your business. This is a course any manager should take."

- Markus Klause

"Everything you need to understand what TDD really is and how it works. The course is well structured. It helps go with your own pace. It covers everything you need in order to start with TDD, and to do it right. I can't be more satisfied."

- Paolo Carollo

"Very enlightening and a very powerful tool because it gives me the notion of everything I need to think about every time I have to implement a continuous delivery approach, or guide someone implementing it, on any kind of technology landscape."

- João Rodrigues

"The course made me feel energised and inspired to tackle large projects with more energy and control. It also motivated me to be optimistic about what is achievable."

- Junior Developer

"Fantastic! This course was extremely thorough. It offered varying approaches to UAT testing encouraging more expansive and creative ways to conceptualize and apply testing methodologies to garner more accurate results."

- Rikki Gillum