

## A structured learning journey

Alcor Academy's Training Programme is a structured learning path, designed to help technical teams growing foundational engineering practices.

After decades of experience in delivering and coaching XP practices and software design, we decided to collect all our knowledge into the book titled "Agile Technical Practices Distilled".

Given the success of the book and the great feedback about our coaching, we decided to structure it in a full-fledged training programme, available to a wider audience.



# 3 learning phases, 18 lessons



## WALKING

We begin the journey from the rules of Classic TDD focusing on interactive practice. We explain the idea of "simplest implementation" and gradually move to Object-Oriented Design, with exercises like "object calisthenics".



## **RUNNING**

We continue with code improvements techniques like Refactoring and Code Smells recognition. We then focus on design principles practicing on SOLID principles, Coupling and Cohesion.



## **FLYING**

We finish with Connascence, the 4 Rules of Simple Design, test doubles, Outside-In and Acceptance Test Driven Development introducing Behaviour Driven Development and Domain Driven Design.





### PHASE SYLLABUS

LESSON 1

Introduction to Classic TDD

LESSON 2

Great TDD Habits

LESSON 3

Transformation Priority Premise

LESSON 4

Object Calisthenics Assessment LESSON 5

Object Calisthenics Applied LESSON 6

Learn by doing: Presentation Day





### PHASE SYLLABUS

LESSON 1

Introduction to Refactoring

LESSON 2

Code Smells

LESSON 3

Refactoring to Better Design

LESSON 4

Solid Principles ++

LESSON 5

Coupling & Cohesion

LESSON 6

Learn by doing: Presentation Day





### PHASE SYLLABUS

LESSON 1

Connascence

LESSON 2

**Test Doubles** 

LESSON 3

4 Rules of Simple Design

LESSON 4

Outside-In Mindset LESSON 5

Outside-In Development Applied LESSON 6

Learn by doing: Presentation Day





#### **ROLES**

#### Navigator

The person listened by the driver about what to do next. He has to make the final decisions and coordinate the mob.

#### Driver

The person typing on the keyboard. He should trust the navigator and do what is asked. He is not required to think.

#### Mob

Everyone else in the room wishing to contribute actively to the task. They observe, interact and discuss with the navigator the way forward.

#### Facilitator (our coach)

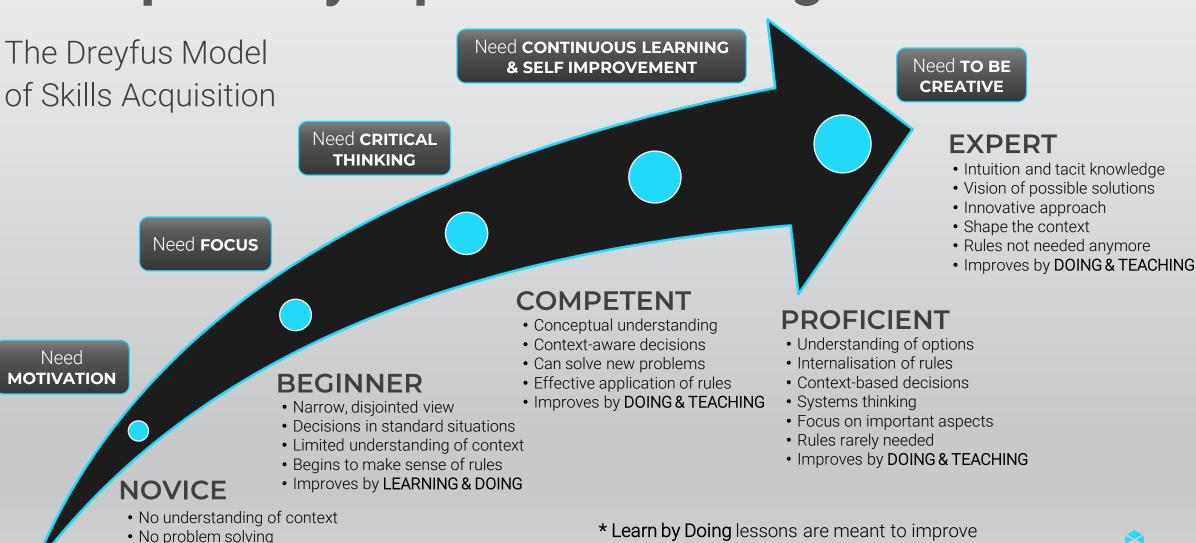
Sits in the back, observe the flow and jumps in when necessary. This is the only role that does not rotate.



# Inspired by a proven learning model

Blindly apply the rules

Improves by LEARNING & DOING



\* Learn by Doing lessons are meant to improve technical communication and presentation skills to gradually move to teaching.



## Building a collaborative mindset

In the "The Five Dysfunctions of a Team", Patrick Lencioni shows a model to explain and resolve root causes of teams' dysfunctions.

Effective collaboration can happen only in their absence.

Inattention to Results

When there's trust, discussions and accountability, the team is strong, motivated and committed to achieving results as a group.

Avoidance of Accountability

The best and most high performing teams are where individuals hold one another to account.

**Lack of Commitment** 

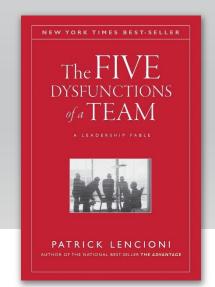
Avoiding conflicts creates artificial harmony. Teams stop committing to decisions in fear of breaking harmony.

**Fear of Conflict** 

Healthy conflict is constructive, but can't happen without trust. All team members to have a say in decisions.

Absence of Trust

Trust is necessary in a team. It can be built showing vulnerability, sharing our challenges and being authentic.





## A digital copy of our book as manual



CONTINUOUS

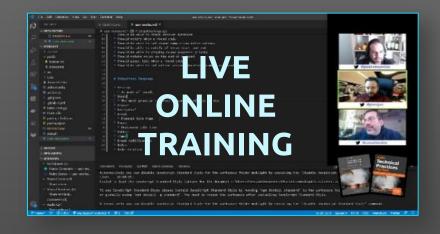






## Contact us

We are based in London, UK. We serve customers worldwide. We help teams foster a collaborative learning mindset, so they keep improving everyday.







### ALESSANDRO DI GIOIA







## MARCO CONSOLARO

y consolondon



info@alcor.academy