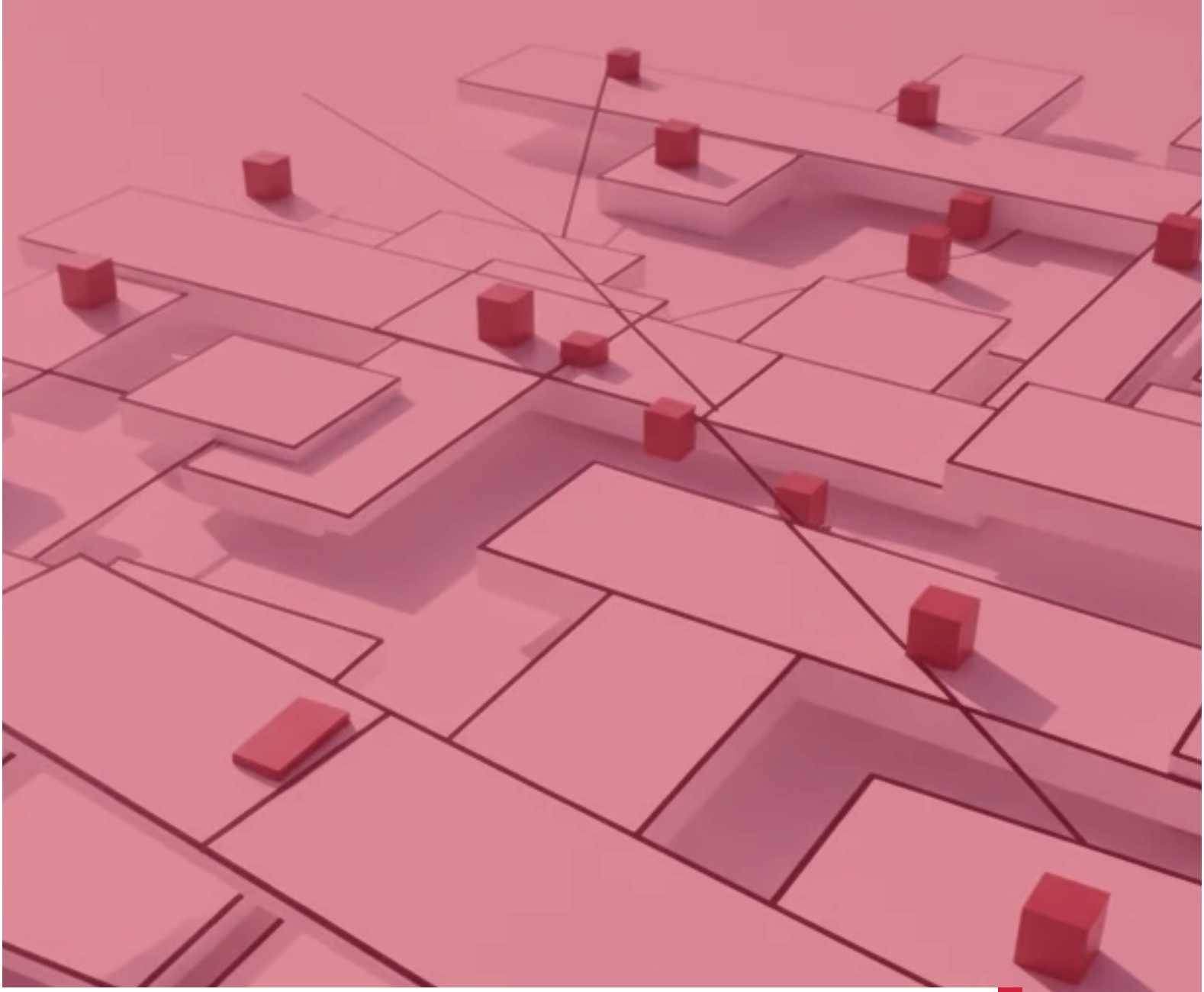


Máster online 100%

Master in Agile Methodology and Digital Transformation + 60 ECTS Credits

Structuralia

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Master in Agile Methodology and Digital Transformation + 60 ECTS Credits

Modality
Online

Languages
Español

Duration
1500 hours (60 ECTS)

No Limit
AI Assistant

Does it include practices?
NO

Educational Institutions

Structuralia Engineering eLearning

UNIVERSIDAD NEBRIJA

Summary

The Master in Agile Methodology and Digital Transformation is a specialization program that addresses the management of complex projects and adaptability in constantly changing environments, designed for professionals and students in project management, IT or consulting who seek to update their skills in agile methodologies and understand digital transformation to overcome the ineffectiveness of traditional approaches. You will acquire the most advanced techniques and skills for project management, addressing the critical need for adaptability and value creation. You will master the most effective and innovative methodologies, essential for leading large-scale initiatives. You will understand how the agile methodology has become a central element to respond to uncertainty and maintain the necessary flexibility in any project. Throughout the master's degree, you will explore the key differences between agile approaches and traditional management models, identifying their strategic advantages in process optimization and decision making. You will acquire a set of practices and techniques that will allow you not only to adapt to market changes, but also to anticipate them and continuously generate value in each phase of the project life cycle. This knowledge is crucial in an environment where digital transformation demands operational and strategic agility. You will prepare to implement solutions that optimize the management of teams and

services, ensuring the delivery of superior results and the constant evolution of your projects, consolidating your profile as a reference in modern management.

Agenda

MODULE 1. WHY AGILE; AGILE VS TRADITIONAL; AGILE METHODOLOGIES

1. DIDACTIC UNIT 1. CONTEXT AND NEED FOR THE AGILE APPROACH

1. Organizational changes in the digital age
2. Limitations of predictive models in changing environments
3. The birth of a new paradigm: agile thinking
4. Factors Driving Agility Adoption

2. DIDACTIC UNIT 2. COMPARISON BETWEEN MODELS: AGILE VS. TRADITIONAL

1. Linear approach vs incremental approach
2. Risk and change management in both models
3. Roles, structures and decision making
4. Advantages and challenges of each methodology according to context

3. DIDACTIC UNIT 3. FOUNDATIONS OF AGILE MINDSET

1. Essential values of agile work
2. Key attitudes: flexibility, collaboration and continuous delivery
3. The cultural impact of agile thinking on teams and organizations

4. DIDACTIC UNIT 4. OVERVIEW OF AGILE APPROACHES

1. Introduction to existing agile frameworks
2. Common Features and Key Differences
3. Criteria for selecting an agile approach according to project or organization

5. DIDACTIC UNIT 5. SCRUM, KANBAN AND BEYOND: PRACTICAL EXPLORATION

1. Scrum principles and components
2. Visual flow and work in progress with Kanban
3. Practical Comparison: When to Use Each Approach
4. Combined application of agile frameworks

6. DIDACTIC UNIT 6. BUILDING AGILE TEAMS AND WORK DYNAMICS

1. Self-organized and cross-functional teams
2. Collaborative roles: facilitator, developer, client
3. Agile tools for teamwork and transparency

7. DIDACTIC UNIT 7. PATH TOWARDS AGILE ORGANIZATIONAL TRANSFORMATION

1. Stages to move towards an agile model
2. Common obstacles in transformation and how to address them
3. Progress measurement and continuous improvement
4. Real cases of agile implementation

MODULE 2. LAUNCH AND GLOBAL PLANNING OF AGILE PROJECTS

1. DIDACTIC UNIT 1. PROJECT VISION

1. Business Case.
2. Customer centric.
3. Declaration of interdependence
4. Project vision Areas of knowledge according to agile approach ·
5. People Technique

2. DIDACTIC UNIT 2. AGILE SCOPE MANAGEMENT

1. Value-based prioritization
2. Prioritization refinement
3. User stories
4. Requirements division
5. Agile requirements management

3. DIDACTIC UNIT 3. AGILE ESTIMATION

1. Definitions of Ready and Done
2. Typical mistakes to avoid
3. Adaptive planning
4. Agile estimation
5. Speed, timebox and tailoring

4. DIDACTIC UNIT 4. PLANNING WITH UNCERTAINTY

1. Roadmap
2. Roadmap settings
3. WIP Limitation
4. Validity of the agile approach
5. Agile change management

MODULE 3. AGILE EXECUTION; ITERATIVE AND INCREMENTAL DELIVERY

1. DIDACTIC UNIT 1. DEFINITION OF THE AGILE PROJECT PLAN

1. Delivery plans
2. Using the delivery plan
3. Zero iteration. Spikes
4. Iteration preparation
5. Planning an iteration

2. DIDACTIC UNIT 2. SHORT TERM PLANNING

1. Detail the content of the iteration
2. Time, cost, and team size.
3. Execution and closure of the iteration
4. Agile engineering practices
5. Other ways to estimate and plan

3. DIDACTIC UNIT 3. FOLLOW-UP

1. Traditional Earned Value
2. Earned value for engineering and construction

3. Agile Earned Value.
4. Team monitoring.
5. High performance equipment.

4. DIDACTIC UNIT 4. INFORMATION DELIVERY AND RADIATORS

1. Work Tracking
2. Demo
3. Vintage
4. Information radiators
5. Project closure

MODULE 4. AGILE SERVICE MANAGEMENT

1. DIDACTIC UNIT 1. DIMENSIONS OF SERVICE MANAGEMENT

1. Service management in TD context
2. Service Management Fundamentals
3. Dimensions for service management
4. Information and technology. Partners and suppliers
5. Value chains, processes and external factors

2. DIDACTIC UNIT 2. AGILE PRINCIPLES FOR SERVICE MANAGEMENT

1. Approach to agile service management
2. Agile service management principles (I)
3. Agile service management principles (II)
4. Agile service management principles (III)
5. Agile Service Management Principles (IV)

3. DIDACTIC UNIT 3. SERVICE VALUE

1. Service value
2. Service value system
3. Service value chain
4. Value chain activities
5. Improvement activity

4. DIDACTIC UNIT 4. AGILE SERVICE MANAGEMENT PRACTICES

1. Parties involved in service delivery
2. Agile management of technological services
3. Practices (I)
4. Practices (II)
5. Practices (III)

MODULE 5. DESIGN THINKING

1. DIDACTIC UNIT 1. CREATIVITY

1. Creativity and ideas
2. Elements of creativity
3. Types of creativity and thinking
4. Creative skills

2. DIDACTIC UNIT 2. CREATIVITY MANAGEMENT

1. Development of creative skills
2. Emotional and cognitive barriers
3. Questioning leads to creation
4. Using chance to create ideas
5. Tools for generating and combining ideas

3. DIDACTIC UNIT 3. CREATIVE THINKING

1. Definition of creative thinking
2. Creative thinking and innovation
3. Principles of innovation
4. Lateral Thinking

4. DIDACTIC UNIT 4. INTRODUCTION TO DESIGN THINKING

1. Design Thinking Concept
2. History and evolution of Design Thinking
3. Application areas and potential benefits

5. DIDACTIC UNIT 5. THE PROCESS IN DESIGN THINKING

1. Creativity and development of new products
2. Fundamental premises
3. The innovation process

6. DIDACTIC UNIT 6. EMPATHY PHASE, THE DISCOVERY

1. Empathy: the discovery phase
2. Market research
3. User research
4. Information management
5. Research groups

7. DIDACTIC UNIT 7. DEFINITION OF OBJECTIVES AND DELIMITATION OF THE PROJECT

1. The definition phase
2. Project development
3. Project management
4. Project closure

8. DIDACTIC UNIT 8. PROJECT DEVELOPMENT, IDEA AND PROTOTYPE

1. The development process
2. Multidisciplinary work
3. Development methods

9. DIDACTIC UNIT 9. TESTING AND DELIVERY OF THE PROJECT

1. The final process
2. Final testing

3. Approval and release
4. Impact measurement and feedback

10. DIDACTIC UNIT 10. METHODOLOGY IN DESIGN THINKING (I)

1. Stakeholders Map
2. Cognitive Immersion
3. Constructive interaction
4. mind map
5. Moodboard
6. Covert observation
7. What, How and Why?
8. Interviews
9. SCAMPER
10. Empathic visualization
11. World Cafe
12. Interaction map
13. People
14. Empathy map
15. How might we...?
16. Saturate and group
17. Share and document stories

11. DIDACTIC UNIT 11. METHODOLOGY IN DESIGN THINKING (II)

1. User profile
2. Card Sorting
3. Models
4. Offer map
5. Reactivation activities
6. Brainstorming
7. Brainwriting
8. Storytelling
9. Council of wise men
10. Impact Mapping
11. Lego® Serious Play®
12. lotus flower
13. Customer journey map

MODULE 6. CLASSICAL MANAGEMENT FRAMEWORK; AGILISM FOR INNOVATION

1. DIDACTIC UNIT 1. STRATEGIC APPROACH TO INITIATE AGILE PROJECTS

1. Contextualization in modern organizational environments
2. Identification of innovation opportunities through agility
3. Key elements in the activation of agile projects at the organizational level
4. Alignment between purpose, strategy and vision of the project
5. Activation of teams and drivers of change

2. DIDACTIC UNIT 2. INITIAL CONFIGURATION OF AN AGILE PROJECT

1. Design of the collaboration environment
2. Establishment of initial operating agreements (Working Agreements)
3. Scaling model selection if applicable (SAFe, LeSS, Nexus)

4. Identification and management of interested parties from the beginning
5. Preparation for launch: enabling factors

3. DIDACTIC UNIT 3. DESIGN OF GLOBAL PLANNING IN AGILE ENVIRONMENTS

1. Structuring the strategic backlog
2. Definition of key results and evolutionary deliverables
3. Time horizon in multilevel agile planning
4. Connection between organizational strategy and iterative execution
5. Preparing for planning across multiple teams

4. DIDACTIC UNIT 4. LAUNCH OF HIGH IMPACT AGILE INITIATIVES

1. Design and facilitation of collaborative kick-off events (Project Kick-Off)
2. Techniques for synchronization between multiple devices
3. Visual tools for planning mapping
4. Establishment of collaboration agreements and value flow
5. Indicators and agreements for continuous review of progress

5. DIDACTIC UNIT 5. ADAPTATION, SCALING AND SUSTAINABILITY

1. Mechanisms to adapt planning in dynamic environments
2. Agile coordination at a global level: time zones, cultures and processes
3. Strategic review and realignment cycles
4. Sustainability of agile change in traditional structures
5. Consolidation of organizational learning

6. DIDACTIC UNIT 6. CONTEXT AND MATURITY MANAGEMENT FOR AGILE PLANNING

1. Assessment of organizational agile maturity: reference frameworks and initial diagnosis
2. Organizational factors that influence global planning (culture, structure, leadership)
3. Political dynamics, resistance and alignment of interests
4. Selection of adaptive approaches according to maturity level and sectoral context
5. Integrating continuous learning into global planning cycles

MODULE 7. OTHER AGILE APPROACHES: AGILE SCALING, DEVOPS, JIRA, AND SAFE

1. DIDACTIC UNIT 1. ULTIMATE PLANNER

1. Last Planner System
2. Components of LPS (I)
3. Components of LPS (II)
4. Components of LPS (III)
5. LPS for manufacturing and production

2. DIDACTIC UNIT 2. DIGITAL TOOLS

1. Digital tools
2. Redmine and Trello
3. Jira and Card Process
4. Quality tools (I)
5. Quality tools (II)

3. DIDACTIC UNIT 3. ADVANCED PRACTICES

1. Steps to apply the agile approach
2. Advanced practices
3. Necessary practice: KPI analysis
4. The Agile organization
5. personal case

4. DIDACTIC UNIT 4. SCALING THE AGILE APPROACH

1. Scaling the method
2. DevOps
3. Moving towards DevOps
4. SAFe
5. Summary tips for the agile approach

MODULE 8. LEAN MANAGEMENT

1. DIDACTIC UNIT 1. LEAN MANAGEMENT FUNDAMENTALS

1. What is lean management
2. Just-in-time, jidoka and PDCA
3. Molt or waste
4. Toyota production system and lean startup
5. Lean for services

2. DIDACTIC UNIT 2. LEADERSHIP AND TEAM MANAGEMENT IN A LEAN CONTEXT

1. Management Metrics and Maturity
2. Adequate leadership according to lean management
3. Work teams in lean environments
4. Working with virtual (remote) teams
5. Applicable practices depending on the context

3. DIDACTIC UNIT 3. LEAN MANAGEMENT TECHNIQUES

1. Added value and customer requirements
2. Value chain
3. Kaizen
4. Poka yoke
5. Benchmarking as a lean tool

4. DIDACTIC UNIT 4. LEAN APPLICATIONS

1. Lean management for construction and engineering
2. Construction according to lean management
3. Operations and competencies
4. Lean digital transformation for engineering and construction

MODULE 9. AGILISM AND DIGITAL TRANSFORMATION

1. DIDACTIC UNIT 1. INTRODUCTION TO DIGITAL TRANSFORMATION

1. Digital transformation concept
2. Main barriers to digital transformation
3. Guidelines and key concepts in digital transformation such as Agile methodologies

2. DIDACTIC UNIT 2. DIGITAL TALENT DETECTION IN THE CONTEXT OF DIGITAL TRANSFORMATION

1. Building talent detection through digital transformation
2. Identification of the steps of social recruiting
3. Promotion of decisive capacity for decision making

3. DIDACTIC UNIT 3. INTRODUCTION TO AGILE METHODOLOGIES

1. Software engineering, its principles and objectives
2. Spiral, iterative and agile methodologies
3. Agile practices
4. Agile methods
5. Evolution of agile methodologies
6. Agile methodologies versus heavy methodologies

4. DIDACTIC UNIT 4. AGILE PROJECT THINKING

1. Principles of agile methodologies
2. Agile manifesto
3. User Stories

5. DIDACTIC UNIT 5. AGILE PLANNING, AGILE LEADERSHIP AND CREATIVITY

1. Iteration as an alternative to linear planning
2. Communication and motivation
3. Characteristics of participative leadership
4. Disruptive thinking and idea development
5. Trial and error, learning by doing

6. DIDACTIC UNIT 6. LEAN THINKING

1. Introduction to Lean Thinking
2. Lean Startup
3. lean startup goals

7. DIDACTIC UNIT 7. OTHER AGILE METHODOLOGIES AND AGILE TECHNIQUES

1. Agile Inception Deck
2. Design Thinking
3. DevOps
4. Dynamic Systems Development Method (DSDM)
5. Crystal Methodologies
6. Adaptive Software Development (ASD)
7. Feature Driven Development (FDD)
8. Agile Unified Process (AUP)

MODULE 10. TFM. MASTER AGILE

Qualification

University Degree in Master of Lifelong Training in Agile Methodology and Digital Transformation issued by the Antonio de Nebrija University with 60 ECTS University Credits. Teachings not leading to obtaining an official qualification

Objectives

- • You will lead the transition towards comprehensive agile management, strategically differentiating it from traditional models. • You will design and implement advanced agile frameworks for managing projects, services, and high-performance teams. • You will integrate the vision of digital evolution with the principles of agility, positioning this philosophy as the central axis of the business strategy. • You will manage the application of specific agility practices for the optimization of complex projects. • You will lead the implementation of agile principles in the delivery and evolution of services. • You will evaluate the impact of agility strategies on value creation and organizational adaptability. • You will foster a culture of continuous improvement and collaboration in multidisciplinary teams, applying agile principles.

What does it prepare you for?

This program prepares you to lead digital transformation in any organization, providing you with a strategic vision and the advanced skills to implement agile approaches at scale. You will learn to design management strategies that surpass traditional models, adapting effectively to contexts of high uncertainty and constant change. The Master in Agile Methodology and Digital Transformation trains professionals in the project management, information technology or consulting sectors in digital transformation leadership to optimize value delivery and collaboration in multidisciplinary teams. You will develop the ability to direct projects and services with an agile approach, evaluating the impact of agile practices and making informed decisions that drive efficiency and innovation. You will be trained to implement solutions that improve the management of equipment and services, ensuring superior results and the constant evolution of your projects, consolidating your profile as an expert in modern management.

Who is it addressed to?

Professionals in the project management, information technology or consulting sectors will find in this master's degree an advanced specialization in agile methodologies. If you work in environments where adaptability and continuous value delivery are critical, and you are looking to optimize your processes and the dynamics of your teams, this program offers you the tools to drive digital transformation. It is also ideal for those who, in leadership roles or product and service development, wish to apply the agile approach to generate strategic impact and continuous improvement in their organizations.

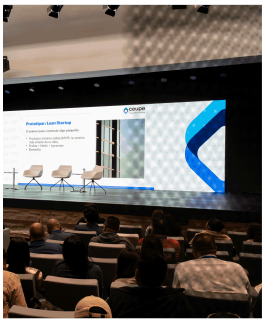
Official Character

This training is not included within the scope of official regulated training (Early Childhood Education, Primary Education, Secondary Education, Official Vocational Training FP, Baccalaureate, University Degree, Master University Officer and Doctorate). It is therefore a complementary and/or specialization training, aimed at the acquisition of certain competencies, skills or aptitudes of a professional nature, which can be assessed as merit in job boards and/or competitive examinations, always within the section of Complementary Training and/or Continuous Training. It is always essential to review the specific grading requirements of the specific public job boards to which we wish to apply.

Professional Outings

- With this specialization in agile methodologies and digital transformation, you will be able to assume strategic roles in organizations that seek to optimize their performance and ability to adapt. You will be positioned to lead initiatives as an Agile Project Director, orchestrating multidisciplinary teams and ensuring the delivery of continuous value. You will consolidate as Scrum Master Senior or Strategic Product Owner, driving efficiency and product vision in complex environments. Likewise, you will be able to work as an Agile Transformation Consultant, advising companies on the implementation of innovative work frameworks and the management of cultural change. You will hold positions as Agile Project Office (PMO) Manager, redefining processes and metrics for more dynamic management, or as Agile Services Manager and Agile Development Team Leader, consolidating your career as a benchmark in modern management.







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- Networking with students from different countries
- Cultural activities and discovery of Madrid
- graduation ceremony

Structural

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Founded in 2001 with a strong industrial DNA, the result of collaboration between large companies in the sector and the Universitat Politècnica de Catalunya (UPC), for more than 25 years we have accompanied technical professionals in their academic and professional development through practical, flexible training aligned with the reality of the labor market.

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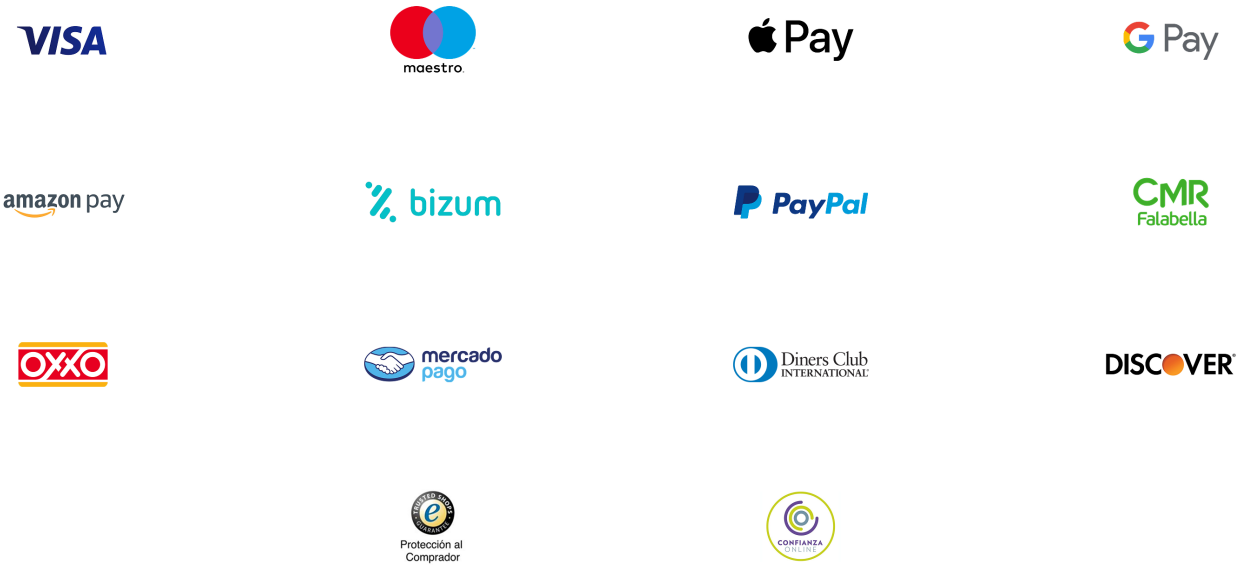
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