

Máster online 100%

Master in Agile Methodology and Project Management + 60 ECTS Credits

Structuralia

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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 Project Management is the strategic specialization designed for professionals in project management or team leadership roles who seek to update and deepen their knowledge in agile methodologies. This program will allow you to optimize management in environments of uncertainty and constant digital evolution. You will delve into the classic planning and control framework, contrasting it with the agile approach, essential for organizational transformation and adaptability. You will develop a comprehensive vision that ranges from the launch and management of communications, to the optimization of supplies and the integration of human resources, quality, safety and environmental management in your projects, always in compliance with applicable regulations. The master's degree equips you with the tools for advanced agile project management, addressing scope definition, contractual management and cost negotiation. You will learn to make accurate estimates and plan rigorously, while mastering risk identification and mitigation. You will turn financial project management into one of your strengths, allowing you to make informed decisions that directly impact the profitability and success of initiatives. With this training, you will not only raise your management level, but you will lead teams

towards achieving ambitious objectives, applying agile methodologies effectively and strategically in any context.

Agenda

MODULE 1. PROJECT MANAGEMENT AND CONTROL

1. DIDACTIC UNIT 1. PROJECT LAUNCH AND MANAGEMENT PLAN

1. Session 1: Project Launch
2. Session 2: Project Management Plan I: Project life cycle
3. Session 3: Project Management Plan II: Project management plan
4. Session 4: Project Management Plan III: Organization Chart
5. Session 5: Lessons Learned

2. DIDACTIC UNIT 2. COMMUNICATIONS AND DOCUMENTATION MANAGEMENT

1. Session 1: Communications Management I: Aspects of communication from a general point of view
2. Session 2: Communications Management II: Global communications management process
3. Session 3: Communications Management III: Specific communications management plan
4. Session 4: Documentation Management and Control I: Specific documentation management plan
5. Session 5: Documentation Management and Control II: Documentation management tools

3. DIDACTIC UNIT 3. SUPPLY MANAGEMENT

1. Session 1: Supply Management
2. Session 2: Purchasing and Subcontract Management
3. Session 3: Activation Management
4. Session 4: Inspection Management
5. Session 5: Logistics Management

4. DIDACTIC UNIT 4. HR, QUALITY, HEALTH, SAFETY AND ENVIRONMENT MANAGEMENT

1. Session 1: HR Management I: Specific human resources plan
2. Session 2: HR Management II: Work team management
3. Session 3: Quality Management
4. Session 4: Health, Safety and Environment (HSE) Management I: Definition
5. Session 5: Health, Safety and Environment Management (HSE) II: Regulations

MODULE 2. ADVANCED PROJECT MANAGEMENT

1. DIDACTIC UNIT 1. SCOPE MANAGEMENT AND CONTRACTUAL MANAGEMENT

1. Session 1: Scope Management I
2. Session 2: Scope Management II
3. Session 3: Scope Management III
4. Session 4: Contractual management I
5. Session 5: Contract Management II

2. DIDACTIC UNIT 2. NEGOTIATION AND COST CONTROL

1. Session 1: Negotiation I
2. Session 2: Negotiation 2
3. Session 3: Negotiation 3
4. Session 4: Cost control

3. DIDACTIC UNIT 3. COST ESTIMATION AND PLANNING

1. Session 1: Cost Estimation 1
2. Session 2: Cost Estimation 2
3. Session 3: Cost Estimation 3
4. Session 4: Planning 1
5. Session 5: Planning 2
6. Session 6: Planning 3

4. DIDACTIC UNIT 4. RISK MANAGEMENT

1. Session 1: Global environment
2. Session 2: Risk Management 1
3. Session 3: Risk Management 2
4. Session 4: Risk Management 3
5. Session 5: Earned Value Method

MODULE 3. FINANCIAL PROJECT MANAGEMENT

1. DIDACTIC UNIT 1. FINANCIAL PROJECTIONS AND PROJECT FINANCING

1. time value of money
2. Investment evaluation methods
3. Preparation of financial projections.
4. Quality of financial projections and residual value.
5. Project financing sources.
6. Cost of capital and debt level of the project. Evaluation of projects with uncertain results.

2. DIDACTIC UNIT 2. PROJECT FINANCE

1. Introduction to the financing model
2. Project Finance.
3. Project risk analysis.
4. Project financing.
5. Entities involved in the financing of the project.
6. Ratios and management of project financing.

3. DIDACTIC UNIT 3. INTERNATIONAL PROJECTS

1. Development of financing in international projects.
2. Country Risk Management.
3. Sources of financing in international projects.

4. DIDACTIC UNIT 4. SERVICE PROJECTS

1. Financial management of service projects.
2. Identification of costs in service projects.
3. Allocation of costs to services.
4. Establishment of the service budget.

5. Economic monitoring and closure of the service.

MODULE 4. QUALITY MANAGEMENT. INSURANCE

1. DIDACTIC UNIT 1. QUALITY FUNDAMENTALS

1. Introduction
2. Quality policy
3. Development of context analysis
4. Processes and procedures
5. Risk identification

2. DIDACTIC UNIT 2. IMPLEMENTATION OF THE QUALITY MANAGEMENT SYSTEM

1. Definition of responsibility and objectives
2. Determination of plans and programs
3. Human resources management
4. Material resource management
5. Management of external resources (suppliers)
6. Management of external resources (Purchasing)

3. DIDACTIC UNIT 3. ACTIVITIES RELATED TO QUALITY

1. Information management
2. Communication management
3. Design, product and service planning
4. Control of design, product and service

4. DIDACTIC UNIT 4. QUALITY MONITORING AND MONITORING

1. Management of non-compliance and its correction
2. Internal control mechanisms: Report
3. Control mechanisms: Audits
4. Management review
5. External certification.

MODULE 5. 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 6. LAUNCH AND GLOBAL PLANNING OF AGILE PROJECTS

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. 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 8. 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 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 IN AGILE AND PROJECT MANAGEMENT

Qualification

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

Objectives

- • Lead the planning and control of complex initiatives, integrating traditional and agile approaches for efficient execution. • Design communication and documentation strategies that ensure transparency and information flow in multidisciplinary teams. • Efficiently manage supplies and resources, optimizing the value chain of initiatives. • Integrate human resources, quality, safety and environmental management into the strategic management of projects, complying with applicable regulations. • Direct the definition of scope and contractual management, ensuring alignment with organizational objectives. • Make strategic financial decisions through negotiation, estimation and cost control, maximizing the profitability of projects. • Evaluate and mitigate project risks proactively, implementing contingency plans that safeguard results. • Implement agile frameworks at scale for team and project management, promoting adaptability in contexts of digital evolution.

What does it prepare you for?

This program prepares you to lead project management with a strategic vision, integrating the agile approach in response to uncertainty and the current pace of change. You will develop the ability to design and implement strategies that combine the classic planning and control framework with the most advanced methodologies. With the Master in Agile Methodology and Project Management, you will integrate agile approaches for the strategic direction of complex initiatives. You will manage the complete life cycle of a project, from its launch and the preparation of the execution plan, to the administration of communications, supplies and human resources, quality and safety, always in compliance with applicable regulations. You will learn to negotiate and control costs, accurately estimate budgets and proactively manage risks. You will make decisions based on a deep understanding of scope and contractual management, as well as financial management. You will acquire the skills to transform the execution of initiatives in your organization, promoting efficiency and adaptability in a context of constant evolution and professional demand.

Who is it addressed to?

This master's degree is aimed at professionals in project management or team leadership roles seeking high-level specialization to optimize the execution of complex and strategic initiatives. If you currently work as a project manager, service manager or lead multidisciplinary teams, and are interested in integrating agile methodologies for more effective and adaptive management, this program is for you. It is ideal for those who want to delve deeper into planning, estimating and assigning work, as well as cost and risk control, under an approach that responds to uncertainty and constant change in digital transformation processes. The training is designed for those seeking to enhance their leadership and decision-making capacity in highly demanding environments.

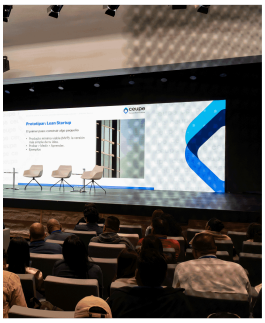
Official Character

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

- Specialization in project management with agile methodologies positions you to assume highly responsible roles in organizations that seek to optimize their performance and adapt to changing environments. This training prepares you to develop as a Project Director, orchestrating the launch and execution of complex strategic plans. You will also be able to assume the role of Project Office Manager (PMO), establishing standards and processes for the efficient management of project portfolios. Likewise, it trains you to act as an Agile Transformation Consultant, guiding companies in the adoption of flexible work frameworks and the optimization of their operations and processes. Your expertise in risk management, cost control and advanced planning will allow you to make strategic decisions that drive the success of projects and the continuous evolution of the organization in a global market.







Live Madrid

Live the International Week

As an additional complement to your training, you can be part of the SIM: Week International in Madrid. A unique meeting that brings together students from all over the world. For seven days you can live an academic and cultural experience in the heart of Europe, culminating with the graduation ceremony in Madrid.

- Conferences and workshops with international experts
- Visits to companies and reference organizations
- Networking with students from different countries
- Cultural activities and discovery of Madrid
- graduation ceremony

Structural

Structuralia is a leading educational institution in postgraduate and highly specialized online training, focused on the fields of engineering, architecture, construction, energy, technology and digital transformation.

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.

Our training proposal connects advanced technical knowledge, real employability and international projection, acting as key support in the professional evolution of those seeking to specialize, grow professionally and generate impact in their sector, with a firm commitment to the democratization of access to technical excellence.



+350.000

Students have gone through our virtual classrooms



+20 years

Experience in the training sector



5 stars

QS ranking in online education

EDUCA EDTECH
Group

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When you enroll in a course or master's degree, you will get a free subscription to MyLXP while your training lasts. You will have access to more than 400 key courses (soft skills, languages, digital skills, etc.) and other surprises. Sign up and see how MyLXP improves your learning.

EDUCA LXP Methodology

The comprehensive tailored online education experience

EDUCA LXP is more than a methodology, it is a completely educational experience personalized thanks to all the possibilities offered by artificial intelligence. Now the content adapts to you, your needs and preferences, while offering you access to updated and practical content that really makes a difference in the labor market.

Flexibility

100% online learning adapted to your schedule: study from any device wherever, whenever and however you want.

Personalization

Contents and training itineraries adapted to your needs, thanks to AI.

Innovation

Constantly evolving technological developments driven by AI through the Learning Experience Platform.

Artificial intelligence

Discover PHIA, your learning assistant that will help you every step of the way.

Teaching support

Human empathy and academic guidance from a specialized teaching team.

Educational Experience

Didactic approach oriented to work by competencies, which favors practical and meaningful learning.

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When you enroll in a course or master's degree, you will get a free subscription to MyLXP while your training lasts

You will have access to more than 400 key courses (soft skills, languages, competencies digital, etc.) and other surprises. Sign up and see how MyLXP improves your learning.

Meet PHIA, your personalized learning assistant

Use all the possibilities of artificial intelligence to get the most out of it match to your training

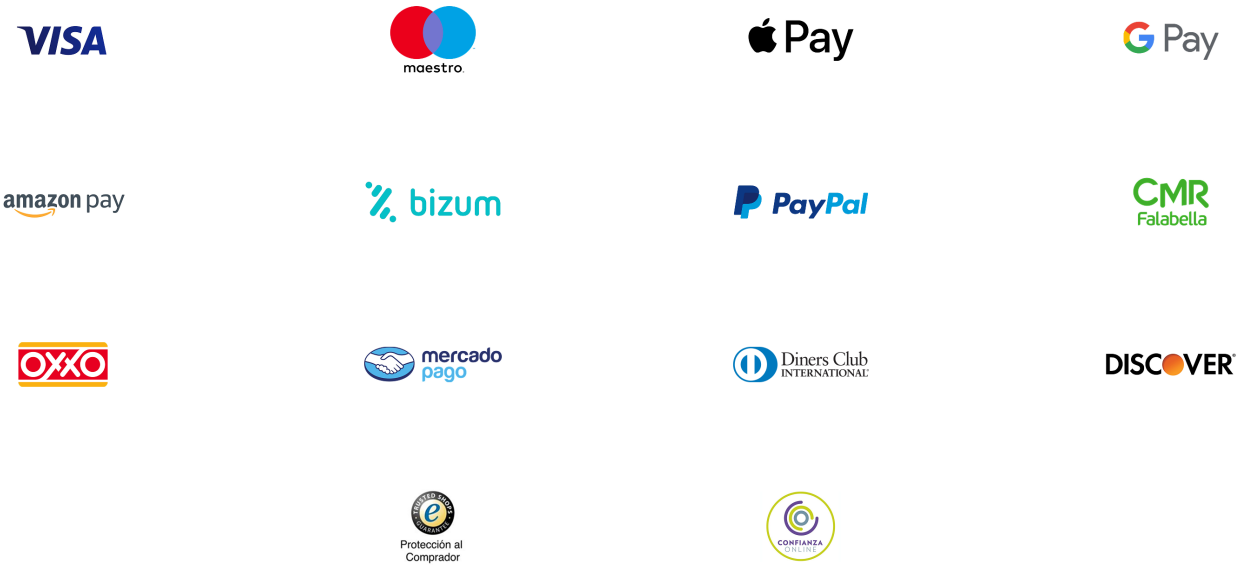
EDUCA EDTECH Group leads the digital revolution in education, promoting the continuous learning and technological transformation. The group is made up of recognized training institutions and its mission is to democratize access to education, promote the transfer of knowledge, technological development and research.

With the experience accumulated over more than 20 years, we have perfected our learning platform EDUCA LXP (Learning Experience Platform), the basis of our educational methodology, which provides students with online training practical and meaningful.



Discover all the payment facilities

We adapt to all international payment methods.



Funding and scholarships

Finance your course or master's degree and enjoy the available scholarships. Contact our expert team to know which one best suits your profile.

25%
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15%
Scholarship recommended

20%
Functional Diversity Scholarship

20%
Unemployment scholarship

15%
GROUP Scholarship

20%
Scholarship for Professionals, Healthcare, members

15%
Entrepreneurship Scholarship

20%
Large Family Scholarship