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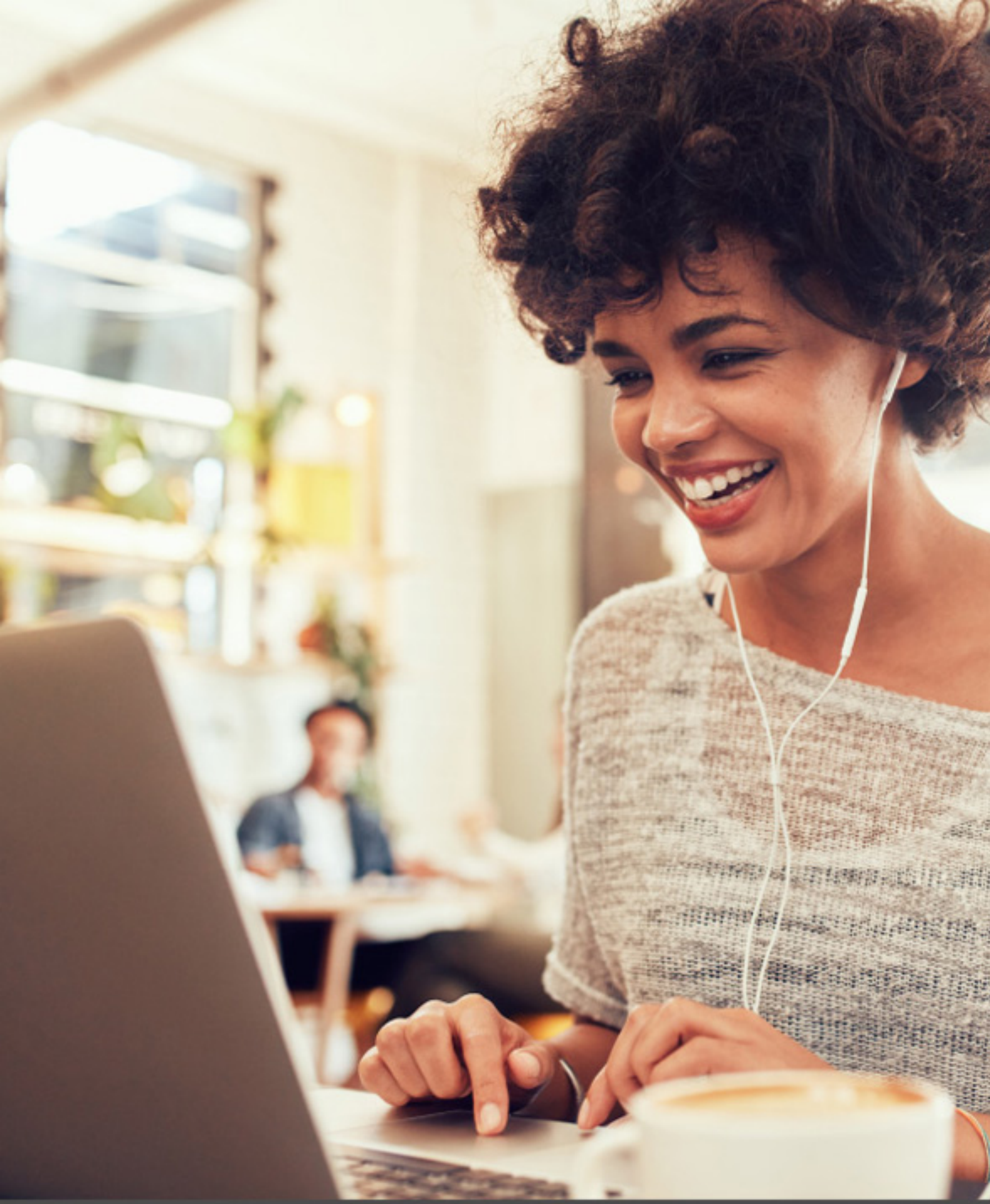
Structuralia
Engineering eLearning

UCAM
UNIVERSIDAD
CATÓLICA DE MURCIA

Master´s Degree in Quality, Environment, and Safety in Construction Settings + 60 ECTS Credits



Elige aprender en la escuela
líder en formación online

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SOMOS STRUCTURALIA

Structuralia es una **institución educativa online de posgrados de alta especialización** en ingeniería, infraestructuras, construcción, energía, edificación, transformación digital y nuevas tecnologías. Desde nuestra fundación en 2001, estamos comprometidos con la formación de calidad para el desarrollo profesional de **ingenieros, arquitectos y profesionales del sector STEM.**

Ofrecemos una plataforma donde poder adquirir nuevas habilidades y actualizarse sin límites de tiempo o espacio. Gracias a nuestra metodología proporcionamos a nuestros estudiantes una **experiencia educativa comprometida** interactiva y de apoyo para que puedan enfrentarse a los desafíos del futuro en sus respectivos campos de trabajo.

Más de **20** años de experiencia

Más de **200k** estudiantes formados

Más de **90** nacionalidades entre nuestro alumnado

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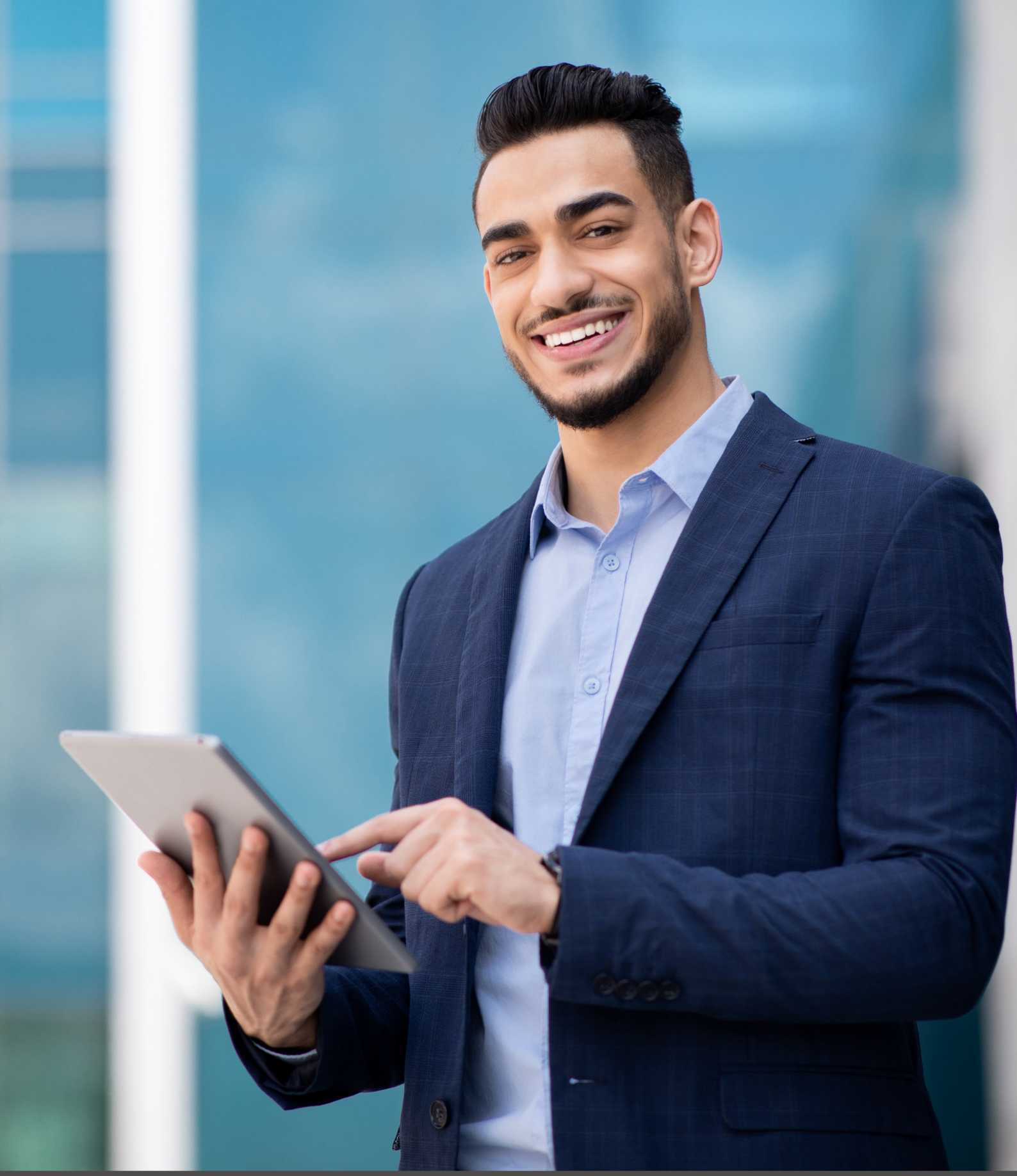

Especializate para
avanzar en tu **carrera profesional**

ALIANZAS STRUCTURALIA Y UNIVERSIDAD UCAM

Structuralia y la Universidad Católica de Murcia cierran una colaboración de forma exitosa. De esta forma, Structuralia y la Universidad Católica de Murcia apuestan por un aprendizaje colaborativo, innovador y diferente, al alcance de todos y adaptado al alumnado.

Además, ambas instituciones educativas apuestan por una educación práctica, que promueva el crecimiento personal y profesional del alumno/a. Todo con el fin de interiorizar nuevos conocimientos de forma dinámica y didáctica, favoreciendo su retención y adquiriendo las capacidades para adaptarse a una sociedad global en permanente cambio.

La democratización de la educación es uno de los objetivos de Structuralia y la Universidad Católica de Murcia, ya que ambas instituciones apuestan por llevar la educación a los rincones más remotos del mundo, aprovechando las innovaciones a nivel tecnológico. Además, gracias al equipo de docentes especializados, se ofrece un acompañamiento tutorizado a lo largo de la formación.

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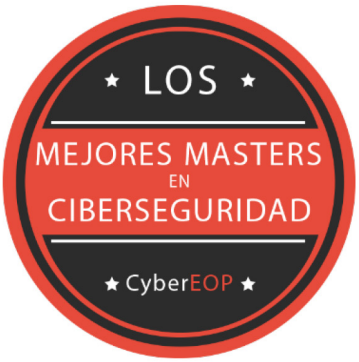
RANKINGS DE STRUCTURALIA

Structuralia ha conseguido el reconocimiento de diferentes rankings a nivel nacional e internacional, gracias por su apuesta de **democratizar la educación** y apostar por la innovación educativa para **lograr la excelencia.**

Para la elaboración de estos rankings, se emplean **indicadores** como la reputación online y offline, la calidad de la institución, la responsabilidad social, la innovación educativa o el perfil de los profesionales.



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BY EDUCA EDTECH

Structuralia es una marca avalada por **EDUCA EDTECH Group,** que está compuesto por un conjunto de experimentadas y reconocidas **instituciones educativas de formación online.** Todas las entidades que lo forman comparten la misión de **democratizar el acceso a la educación** y apuestan por la transferencia de conocimiento, por el desarrollo tecnológico y por la investigación.

EDUCA EDTECH Group

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METODOLOGÍA LXP

La metodología **EDUCA LXP** permite una experiencia mejorada de aprendizaje integrando la AI en los procesos de e-learning, a través de modelos predictivos altamente personalizados, derivados del estudio de necesidades detectadas en la interacción del alumnado con sus entornos virtuales.

EDUCA LXP es fruto de la **Transferencia de Resultados de Investigación** de varios proyectos multidisciplinares de I+D+i, con participación de distintas Universidades Internacionales que apuestan por la transferencia de conocimientos, desarrollo tecnológico e investigación.

1. Flexibilidad

Aprendizaje 100% online y flexible, que permite al alumnado estudiar donde, cuando y como quiera.

2. Accesibilidad

Cercanía y comprensión. Democratizando el acceso a la educación trabajando para que todas las personas tengan la oportunidad de seguir formándose.

3. Personalización

Itinerarios formativos individualizados y adaptados a las necesidades de cada estudiante.

4. Acompañamiento / Seguimiento docente

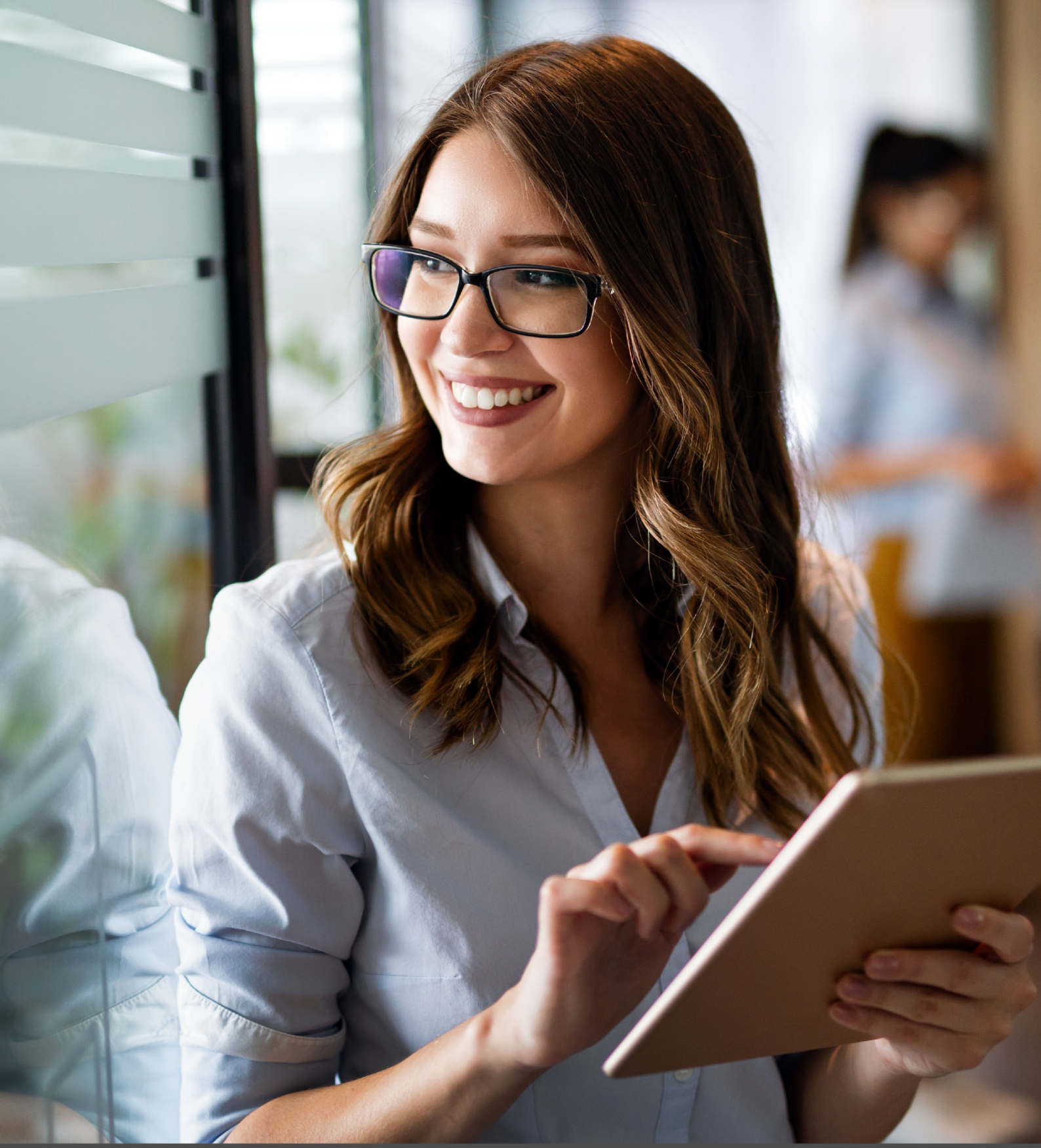
Orientación académica por parte de un equipo docente especialista en su área de conocimiento, que aboga por la calidad educativa adaptando los procesos a las necesidades del mercado laboral.

5. Innovación

Desarrollos tecnológicos en permanente evolución impulsados por la AI mediante Learning Experience Platform.

6. Excelencia educativa

Enfoque didáctico orientado al trabajo por competencias, que favorece un aprendizaje práctico y significativo, garantizando el desarrollo profesional.



Programas

PROPIOS UNIVERSITARIOS

RAZONES POR LAS QUE ELEGIR STRUCTURALIA

1. Nuestra Experiencia

- ✓ Más de **20 años de experiencia.**
- ✓ Más de **200.000 alumnos** ya se han formado en nuestras aulas virtuales.
- ✓ Más de **90 nacionalidades** entre nuestro alumnado.

2. Nuestro Equipo

En la actualidad, Structuralia cuenta con un equipo humano formado por más **550 profesionales que trabajan en el sector STEM (Science, Technology, Engineering and Mathematics).** Nuestro personal se encuentra sólidamente enmarcado en una estructura que facilita la mayor calidad en la atención al alumnado.

3. Nuestra Metodología

100% ONLINE

Estudia cuando y desde donde quieras. Accede al campus virtual desde cualquier dispositivo.

APRENDIZAJE

Pretendemos que los nuevos conocimientos se incorporen de forma sustantiva en la estructura cognitiva

EQUIPO DOCENTE

Structuralia cuenta con un equipo de profesionales que harán de tu estudio una experiencia de alta calidad educativa.

NO ESTARÁS SOLO

Acompañamiento por parte del equipo de tutorización durante toda tu experiencia como estudiante

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4. Calidad AENOR

- ✓ Somos Agencia de Colaboración Nº99000000169 autorizada por el Ministerio de Empleo y Seguridad Social de España.
- ✓ Se llevan a cabo auditorías externas anuales que garantizan la máxima calidad AENOR.
- ✓ Nuestros procesos de enseñanza están certificados por **AENOR** por la ISO 9001.

Master´s Degree in Quality, Environment, and Safety in Construction Settings + 60 ECTS Credits

DURACIÓN
1500 horas

MODALIDAD
ONLINE

ACOMPAÑAMIENTO
PERSONALIZADO

CREDITOS
60 ECTS

Titulación

Master´s Degree in Continuing Education in Quality, Environment, and Safety in Construction Settings with 60 ECTS Credits awarded by the Catholic University of Murcia in collaboration with Structuralia

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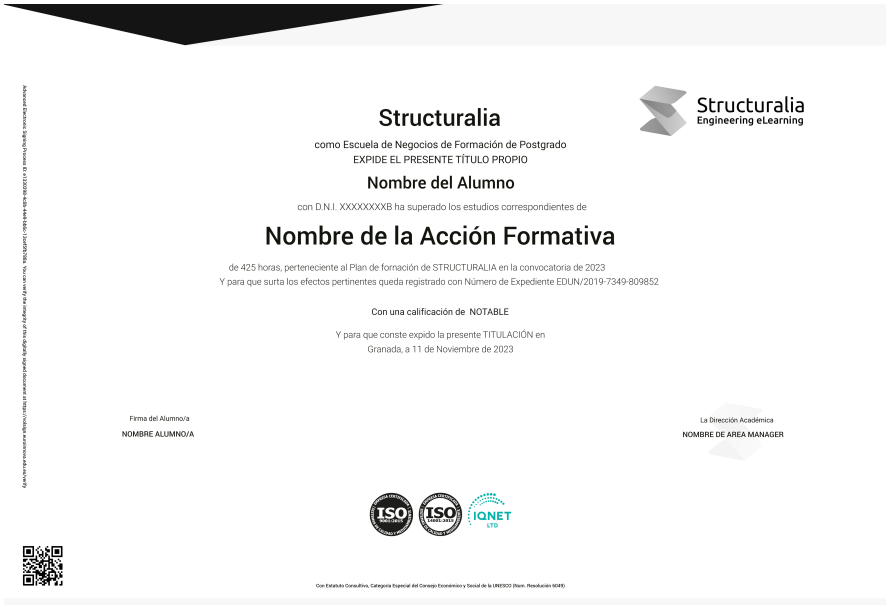

Structuralia

como Escuela de Negocios de Formación de Postgrado
EXPIDE EL PRESENTE TÍTULO PROPIO

Nombre del Alumno

con D.N.I. XXXXXXXXB ha superado los estudios correspondientes de

Nombre de la Acción Formativa

de 425 horas, perteneciente al Plan de fornación de STRUCTURALIA en la convocatoria de 2023
Y para que surta los efectos pertinentes queda registrado con Número de Expediente EDUN/2019-7349-809852

Con una calificación de NOTABLE

Y para que conste expido la presente TITULACIÓN en
Granada, a 11 de Noviembre de 2023

Firma del Alumno/a
NOMBRE ALUMNO/A

La Dirección Académica
NOMBRE DE AREA MANAGER

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Descripción

Quality, environment, safety, and health are basic business management elements that ensure all regulatory and contract requirements are met adequately. They are also essential efficiency, client satisfaction and loyalty tools.

Objetivos

The overall objective is for the student to develop adequate Quality, Environment and Health and Safety strategies, as well as to lead and coordinate teams comprehensively for the company to meet its goals. It also seeks to improve customer satisfaction, environmental management and workers' safety and health to enhance their performance. Additionally, the program aims to facilitate the access to knowledge and the development of skills to obtain management system certifications that allow businesses to: participate in project tenders, resume business relationships with former clients, improve efficiency for higher competitiveness, and guarantee project sustainability. This overall objective will be achieved through the following specific objectives: Understand Quality, Environment, Health and Safety contexts, and their business applications to lead improvement strategies. Implement, maintain and certify Quality, Environment and Health and Safety management in the company and thus, achieve objectives systematically. Prepare and apply quality, environment, health, and safety plans the company's control and improvement activities. To integrate management systems in order to optimize processes and resources.

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Para qué te prepara

It also contributes to strengthening capabilities related to these areas for positions such as operations director Other positions this program can contribute to include Technical, Corporate, Sustainability and HHRR Directors, and Organization Coordinators/Directors/Officers.

A quién va dirigido

This Master’s degree is designed to provide an ample view of all these concepts and a deep understanding of their application in design and implementation.The program has been developed by highly experienced professionals to facilitate the acquisition of the necessary capabilities to establish and manage quality, environment, safety and health systems. It also aims at contributing to business strategic finance, HHRR, social, natural and reputation objective

Salidas laborales

This Master’s degree facilitates the access to career opportunities such as Quality/Environment/Safety/Health Coordinators/Directors in construction, promotion, engineering, and architecture companies.

TEMARIO

MODULE 1. QUALITY MANAGEMENT. QUALITY ASSURANCE

MODULE 2. QUALITY CONTROL IN PROJECT DESIGN AND IMPLEMENTATION

UNIT 1. RISKS, THE PLANNING PROCESS, AND INTRODUCTION TO QUALITY PLANNING IN CONSTRUCTION PROJECTS

1. Introduction
2. Risk and opportunities in construction projects
3. Project design and development quality control
4. Construction project quality planning

UNIT 2. DETAILED QUALITY PLANNING AND ITS APPLICATION DURING PROJECT IMPLEMENTATION

1. Implementation resource organization
2. Specification, methods, and template development
3. Procurement control
4. Supplier and outsourcing control
5. Construction project monitoring and evaluation

UNIT 3. BUILDING AND URBAN DEVELOPMENT QUALITY AND WATER TREATMENT

1. Quality in urban development and urban construction projects
2. Quality control in residential construction projects
3. Quality control for non-residential social buildings
4. Quality control for non-residential industrial buildings
5. Quality control in the construction of water treatment facilities

UNIT 4. QUALITY CONTROL IN CONSTRUCTION WORKS

1. Dam quality control
2. Roads and airport quality control
3. Railway quality control
4. Quality control in port and offshore construction works
5. Quality control in crossing construction works: Bridges, crossings, etc.
6. Quality control in crossing construction works: Tunnels

MODULE 3. ENVIRONMENTAL MANAGEMENT IN CONSTRUCTION PROJECTS

UNIT 1. INTRODUCTION OF THE ENVIRONMENTAL MANAGEMENT SYSTEM IN CONSTRUCTION PROJECTS

1. Introduction to environmental management
2. Relation with other standards and management systems
3. Environmental management system periods
4. Context analysis

5. EMS scope: Processes and other requirements

UNIT 2. GOVERNANCE AND PLANNING OF AN ENVIRONMENTAL MANAGEMENT SYSTEM IN CONSTRUCTION PROJECTS

1. Leadership, environmental policies and roles
2. Planification: Environmental aspects
3. Planification: Legal and other requirements
4. Planification: Risks (threats and opportunities)
5. Planification of environmental actions and objectives

UNIT 3. SUPPORT AND OPERATION PROCESSES IN ENVIRONMENTAL MANAGEMENT SYSTEM

1. Support: Resource management
2. Support: Management of the documented information
3. Support: Environmental communication management
4. Operation: Environmental management in productive activities
5. Operation: Environmental management plan and its implementation

UNIT 4. PERFORMANCE EVALUATION AND IMPROVEMENT OF ENVIRONMENTAL MANAGEMENT SYSTEM. EXTERNAL CERTIFICATION

1. Performance evaluation: Follow-up, measurement, analysis and measurement activities
2. Performance evaluation: Internal audit
3. Performance evaluation: Management review
4. Improvement activities: Non-conformities and corrective actions
5. External certification

MODULE 4. ENVIRONMENTAL MANAGEMENT AT A CONSTRUCTION SITE

UNIT 1. BASIS OF ENVIRONMENTAL MANAGEMENT AT THE CONSTRUCTION SITE

1. Environmental legal requirements. Permits and licenses
2. The EIA process and its on-site implications
3. On-site industrial plants
4. The ISO 14001 environmental management system and its application in construction
5. On-site environmental monitoring (environmental surveillance)
6. Training and awareness-raising for construction workers

UNIT 2. PREVENTIVE MEASURES FOR ENVIRONMENTAL ON-SITE IMPACTS (I)

1. Noise and dust prevention
2. Protection of vegetation and wildlife
3. Protection of cultural heritage
4. Basis of environmental restoration
5. Energy efficiency on-site

UNIT 3. PREVENTIVE MEASURES FOR ENVIRONMENTAL ON-SITE IMPACTS (II)

1. Actions in watercourses and sensitive environments. Impact prevention

2. On-site water treatment (Sanitary and industrial)
3. Prevention of run-off and erosion during construction works
4. Soil protection. Maintenance of machinery on-site
5. Fuel tanks and other hazardous substances on-site

UNIT 4. WASTE MANAGEMENT

1. On-site waste management
2. Management of HW and other waste
3. Land and on-site recovery of land and waste
4. Environmental emergencies in the execution of works

MODULE 5. SAFETY AND HEALTH CONTROL AT A CONSTRUCTION SITE

UNIT 1. INTRODUCTION TO OCCUPATIONAL RISK PREVENTION: SAFETY AT WORK (I)

1. Introduction
2. Safety conditions in the construction sector
3. Risk evaluation: Methodologies
4. Site implementation. Hygiene and welfare facilities
5. Safety: Risk of falling to the same or different levels

UNIT 2. SAFETY AT WORK (II)

1. Safety: work with chemical agents
2. Safety: Work with electrical risks
3. Safety: Work with explosives
4. Safety: Fire hazard
5. Safety: Machine and plant work

UNIT 3. SAFETY AT WORK III. INDUSTRIAL HYGIENE, ERGONOMICS AND PSYCHOSOCIOLOGY

1. Safety: Work in confined spaces. Work in explosive atmospheres. Work in hyperbaric environments
2. Safety: Work with portable aids and tools
3. Industrial hygiene: Physical and biological risks
4. Ergonomic risks
5. Psychosocial risks

UNIT 4. OCCUPATIONAL RISK PREVENTION MANAGEMENT

1. Accident investigation
2. Occupational health
3. Safety management in design
4. Safety management on-site
5. Safety management in maintenance and operation

MODULE 6. HEALTH AND SAFETY MANAGEMENT

UNIT 1. ISO 45001 - BASIC CONCEPTS

1. Introduction
2. Definition of processes
3. Development of the context analysis
4. Leadership and commitment. OSH policies
5. Roles, responsibilities and authorities in the organization. Consultation and participation of workers

UNIT 2. PLANNING AND COMMUNICATION

1. Planning (I). Actions to address risks and opportunities
2. Planning (II). Actions to address risks and opportunities. OSH objectives and planning to achieve OSH objectives
3. Support (I). Resources. Competencies. Awareness
4. Support (II). Communication
5. Support (III). Documented information

UNIT 3. OPERATIONAL CONTROL

1. Operation. Planning and operational control (I). Elimination of hazards and reduction of risks for OSH
2. Operation. Planning and operational control (II). Change management
3. Operation. Planning and operational control (III). Purchases
4. Operation. Emergency preparedness and response
5. Performance evaluation I. Performance monitoring, measurement, analysis and evaluation

UNIT 4. CONTINUAL IMPROVEMENT

1. Performance evaluation (II). Internal audit
2. Performance evaluation (III). Management review
3. Improvement (I). Incidents, non-conformities and corrective actions
4. Improvement (II). Continual improvement
5. External certification

MODULE 7. HEALTH INTEGRATED SYSTEMS MANAGEMENT. ISO 9001, ISO 14001, ISO 45001

UNIT 1. INTRODUCTION TOTHE INTEGRATED CONSTRUCTION MANAGEMENT SYSTEM

1. Introduction to integrates management
2. Reasons for integration
3. Strategies, models and levels in integrated management systems
4. Standard-based integration for IMS
5. The UNE 66177:2005 Standard

UNIT 2. GOVERNANCE AND PLANNING OF AN INTEGRATED MANAGEMENT SYSTEM IN CONSTRUCTION

1. Integration planning according to UNE 66177:2005
2. Understanding the organisation, its context and scope
3. Processes and other activities in the IMS
4. Leadership: policies, roles and responsibilities

5. Planning: environmental aspects, hazards, rosk and requirements assesment

UNIT 3. RISKS, OBJECTIVES AND SUPPORTING PROCESSES. PLANNING OPERATIONS

1. Planning risks, opportunities and actions
2. Planning: objectives and planned changes
3. Support: IMS resources
4. Support: Awareness, communication and documented information
5. Operation: operational planning and control. Emergency situations

UNIT 4. PERMORMANCE. ASSESSMENT AND IMPROVEMENT IN AN IMS

1. Quality in operations
2. Performance assessment: monitoring, measurement, analysis and evaluation
3. Performance assessment: internal audit
4. Performance assessment: management review
5. Continuous improvement: incidents, non-conformities and corrective actions

MODULE 8. SUSTAINABLE CONSTRUCTION

UNIT 1. INTRODUCTION TO SUSTAINABLE CONSTRUCTION

1. Introduction and historical context
2. Regulations on sustainability in building
3. Sustainability regulations in civil works
4. Building materials and the environment
5. Life cycle analysis

UNIT 2. ENVIRONMENTAL CERTIFICATION OF BUILDINGS

1. Measurement of sustainability in buildings (I)
2. Credits associated with the construction company
3. Measurement of sustainability in buildings (II)
4. BREEAM credits associated with the construction company
5. Valuation of the use of sustainable materials in LEED and BREEAM

UNIT 3. OTHER BUILDING AND CIVIL WORKS CERTIFICATIONS

1. Measurement of sustainability in buildings 3: GREEN
2. GREEN credits associated with the construction company
3. Health and comfort measures in the work environment. WEEL certification
4. Energy efficiency measures in buildings. Passivhaus certification
5. Sustainability measures in civil works

UNIT 4. ENVIRONMENTAL CERTIFICATION INFRAESTRUCTURES. ENVISION

1. Introduction to envision
2. Envision credits associated with quality of life and leadership
3. Envision credits associated with resource allocation
4. Envision credits associated with natural world

5. Envision credits associated with climate and resilience

MODULE 9. CORPORATE SOCIAL RESPONSIBILITY

UNIT 1. CSR: A NEW WAY TO MANAGE ORGANIZATIONS

1. From sustainability to Corporate Social Responsibility
2. The foundation of CSR: Business ethics
3. Institutional reference framework at the international level
4. How is CSR advancing in Spain
5. SDG applied to the business sector

UNIT 2. STAKEHOLDERS AND CSR DIMENSIONS I

1. Stakeholder analysis
2. CSR management areas and benefits for business
3. Transparency and corporate governance
4. CSR and people management
5. Business and human rights

UNIT 3. STAKEHOLDERS AND CSR DIMENSIONS II

1. Supply chain
2. Environment
3. Sustainable finance
4. Collaboration with community
5. Responsible consumption

UNIT 4. MANAGEMENT AND COMMUNICATION TOOLS

1. CSR management tools
2. Main CSR management systems
3. Risk management and CSR
4. CSR communication - The keys to a good strategy
5. CSR communication tools

MODULE 10. MFP. MASTER´S DEGREE IN QUALITY, ENVIRONMENT, SAFETY, AND HEALTH

¿Te ha parecido interesante esta información?

Si aún tienes dudas, nuestro equipo de asesoramiento académico estará encantado de resolverlas.

Pregúntanos sobre nuestro método de formación, nuestros profesores, las becas o incluso simplemente conócenos.

Solicita información sin compromiso

Telefonos de contacto

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Colombia	+57 601 50885563	Mexico	+52-(55)11689600
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