

[MLA101] Continuous Improvement Models

GENERAL INFORMATION

Studies	UNIVERSITY MASTER'S DEGREE IN PRODUCTIVE LOGISTICS OPERATIONS MANAGEMENT	Subject	?
Semester	2	Course	1
Character	COMPULSORY	Mention / Field of specialisation	
Plan	2025	Modality	Face-to-face
Credits	3	Language	EUSKARA/CASTELLANO
		Total hours	42 class hours + 33 non-class hours = 75 total hours

2030 AGENDA GOALS



PROFESSORS

UNZUETA ARANGUREN, GORKA

REQUIRED PREVIOUS KNOWLEDGE

Subjects	Knowledge
(No specific previous subjects required)	(No previous knowledge required)

LEARNING RESULTS

LEARNING RESULTS	KC	SK	AB	ECTS
ML121 - Identifies key elements and characteristics of Continuous Improvement (CI): continuous improvement models (CIMs that characterise CI), CI maturity level.	x			1,16
ML122 - Identifies the main operational methods and methodologies that can support Continuous Improvement as well as their deployment process in different industrial environments	x			1,44
ML301 - Works in multidisciplinary teams, without distinction, with a cooperative and participative attitude and efficiently communicates the results obtained orally and in writing in different languages. Without any limitation of accessibility to achieve the established objectives.	x		x	0,2
ML302 - Understands the impact of their profession on the environment in order to practice with social responsibility	x			0,2

Total: 3

KC: Knowledge or Content / SK: Skills / AB: Abilities

SECONDARY LEARNING RESULTS

RML301 [!] Trabaja en equipos multidisciplinares, sin distinción ninguna, con actitud cooperativa, participativa y comunica eficiente los resultados obtenidos de forma oral y escrita en distintos idiomas. Sin ninguna limitación de accesibilidad para alcanzar lo

LEARNING ACTIVITIES

	CH	NCH	TH
Development and writing of records, reports, presentations, audiovisual material, etc. on projects/work experience/challenges/case studies/experimental investigations carried out individually and/or in teams	3 h.	1 h.	4 h.
Carrying out/resolving projects/challenges/cases, etc. to provide solutions to problems in interdisciplinary contexts, real and/or simulated, individually and/or in teams	1 h.		1 h.

EVALUATION SYSTEM

	W
Reports on the completion of exercises, case studies, computer exercises, simulation exercises, laboratory exercises, term projects, challenges and problems	50%
Presentation and defence of exercises, case studies, computer practical work, simulation practical work, laboratory practical work, term projects, end of degree project, master's thesis, challenges and problems	50%

MAKE-UP MECHANISMS

(No mechanisms)

CH - Class hours: 4 h.
NCH - Non-class hours: 1 h.
TH - Total hours: 5 h.

RML120 [!] *Identifica elementos y características clave de la Mejora Continua (MC): modelos de mejora continua (MMC que caracterizan la MC), nivel de madurez de la MC*

LEARNING ACTIVITIES	CH	NCH	TH
Conducting tests, giving presentations, presenting defences, taking examinations and/or doing checkpoints	1 h.		1 h.
Carrying out/resolving projects/challenges/cases, etc. to provide solutions to problems in interdisciplinary contexts, real and/or simulated, individually and/or in teams	5 h.	6 h.	11 h.
Presentation by the teacher in the classroom, in participatory classes, of concepts and procedures associated with the subjects	8 h.	7 h.	15 h.
Concept mapping	1 h.	1 h.	2 h.

EVALUATION SYSTEM	W	MAKE-UP MECHANISMS
Reports on the completion of exercises, case studies, computer exercises, simulation exercises, laboratory exercises, term projects, challenges and problems	30%	Individual written and/or oral tests or individual coding/programming tests
Presentation and defence of exercises, case studies, computer practical work, simulation practical work, laboratory practical work, term projects, end of degree project, master's thesis, challenges and problems	30%	
Individual written and/or oral tests or individual coding/programming tests	40%	

CH - Class hours: 15 h.

NCH - Non-class hours: 14 h.

TH - Total hours: 29 h.

RML302 [!] *Entiende el impacto de su profesión en el entorno para ejercer con responsabilidad social*

LEARNING ACTIVITIES	CH	NCH	TH
Development and writing of records, reports, presentations, audiovisual material, etc. on projects/work experience/challenges/case studies/experimental investigations carried out individually and/or in teams	3 h.	1 h.	4 h.
Carrying out/resolving projects/challenges/cases, etc. to provide solutions to problems in interdisciplinary contexts, real and/or simulated, individually and/or in teams	1 h.		1 h.

EVALUATION SYSTEM	W	MAKE-UP MECHANISMS
Reports on the completion of exercises, case studies, computer exercises, simulation exercises, laboratory exercises, term projects, challenges and problems	50%	(No mechanisms)
Presentation and defence of exercises, case studies, computer practical work, simulation practical work, laboratory practical work, term projects, end of degree project, master's thesis, challenges and problems	50%	

CH - Class hours: 4 h.

NCH - Non-class hours: 1 h.

TH - Total hours: 5 h.

RML121 [!] *Identifica los métodos operativos y metodologías principales que pueden dar soporte a la Mejora Continua así como su proceso de despliegue en diferentes entornos industriales*

LEARNING ACTIVITIES	CH	NCH	TH
Development and writing of records, reports, presentations, audiovisual material, etc. on projects/work experience/challenges/case studies/experimental investigations carried out individually and/or in teams	4 h.	11 h.	15 h.
Personal study and flexible development of concepts and subjects using active dynamics, to foster more meaningful learning		5 h.	5 h.

Conducting tests, giving presentations, presenting defences, taking examinations and/or doing checkpoints	1 h.		1 h.
Presentation by the teacher in the classroom, in participatory classes, of concepts and procedures associated with the subjects	13 h.		13 h.
Concept mapping	1 h.	1 h.	2 h.

EVALUATION SYSTEM

W

MAKE-UP MECHANISMS

Reports on the completion of exercises, case studies, computer exercises, simulation exercises, laboratory exercises, term projects, challenges and problems

30%

Individual written and/or oral tests or individual coding/programming tests

Presentation and defence of exercises, case studies, computer practical work, simulation practical work, laboratory practical work, term projects, end of degree project, master's thesis, challenges and problems

30%

Individual written and/or oral tests or individual coding/programming tests

40%

CH - Class hours: 19 h.

NCH - Non-class hours: 17 h.

TH - Total hours: 36 h.

CONTENTS

TOPIC 1. Introduction

- Continuous Improvement, CI

TOPIC 2. CI Philosophies vs. CI Methodologies

- Philosophies
- KAIZEN, TQM, etc.
- Methodologies & Operational methods
- Lean, Six Sigma, LSS, TPM, KAIZEN, TOC, etc.

TOPIC 3. CI Models (CIM)

- Types of CIM
- Excellence models
- Sustainability models
- Evolutionary models
- Principles & Elements of CI

TOPIC 4. Deployment of CI

- CI Maturity
- CI Assessment
- The CI Process (CIP)

LEARNING RESOURCES AND BIBLIOGRAPHY

Learning resources

Subject notes
 Technical articles
 Presentations by external Lecturers

Bibliography

(No bibliography)

