

# MS Construction Management 5 Year Assessment Plan

## PROGRAM LEARNING OUTCOMES (PLOS)

Students graduating with a M.S. Construction Management degree from Cal State East Bay will be able to:		I.L.O Alignment
a	Understand and implement risk management, scheduling and estimating, building information modeling, high performance building assessment systems, and project delivery methods.	1,6
b	Use effective communication skills to solve practical construction problems, explain and defend the application of advanced construction practices associated with planning, staffing, scheduling and controlling construction projects.	2, 4
c	Plan and deliver a project meeting the desired needs within realistic constraints such as economic, environmental, social, political, ethical, health and safety, constructability, and sustainability.	2, 5
Assessment Plan repeats every three year		

### Year 1: 2020-2021

<i>1. Which PLO(s) to assess</i>	PLO b - use effective communication skills to solve practical construction problems, explain and defend the application of advanced construction practices associated with planning, staffing, scheduling and controlling construction projects. (ILO 2,4)
<i>2. Is it aligned with an ILO?</i>	Yes, ILO 2,4
<i>3. Sample (courses/# of students)</i>	CMGT 685 Special Topics in Construction Management
<i>SLO from the course</i>	Identify current issues involving the construction industry. Conduct research, and present their findings orally and in writing.
<i>4. Assessment activity</i>	Data Analysis and Project

5. <i>Assessment instrument</i>	Oral presentation rubric
6. <i>Time (which semester(s))</i>	summer 2021
7. <i>Responsible person(s)</i>	c-Prof. Shahbodaghlou
8. <i>Ways of reporting (how, to who)</i>	The results (qualitative) will be reported by faculty to the department chair via completion of the course Faculty Self-Assessment form.
9. <i>Ways of closing the loop</i>	Interaction between chair, faculty and industry advisory board

## Year 2: 2021-2022

1. <i>Which PLO(s) to assess</i>	PLO c - plan and deliver a project meeting the desired needs within realistic constraints such as economic, environmental, social, political, ethical, health and safety, constructability, and sustainability. (ILO 2,5)
2. <i>Is it aligned to an ILO?</i>	Yes, ILO 2,5
3. <i>Sample (courses/# of students)</i>	CMGT 680, Construction Safety and Health
4. <i>SLO from the course</i>	SLO 1 - Develop strong technical knowledge and understanding of the basic principles of hazard sources related to environment, humans and equipment; SLO 3 - Identify occupational health and safety regulations, and understand their ethical and legal implications;
4. <i>Assessment activity</i>	b-Midterm exam question;
5. <i>Assessment Instrument</i>	Program rubric
6. <i>Time (which semester(s))</i>	Fall 2021;
7. <i>Responsible person(s)</i>	b-Lecturer
8. <i>Ways of reporting (how, to who)</i>	The results (quantitative and qualitative) will be reported by faculty to the department chair via completion of the course Faculty Self-Assessment form.
9. <i>Ways of closing the loop</i>	Interaction between chair, faculty and industry advisory board

## Year 3: 2022-2023

1. <i>Which PLO(s) to assess</i>	PLO a - Understand and implement risk management, scheduling and estimating, building information modeling, high performance building assessment systems, and project delivery methods. (ILO 1,6)
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2. <i>Is it aligned to an ILO?</i>	Yes, ILO 1,6
3. <i>Sample (courses/# of students)</i>	CMGT 670 Construction Enterprise and Risk Management
4. <i>SLO from the course</i>	Analyze the different types of risk and assess their likelihood and impact; Evaluate the use of different quantitative analysis techniques such as Monte Carlo simulation to assess the overall effect of risk at a project and corporate level, thus facilitating decision making under uncertainty.
5. <i>Assessment indicators</i>	a-Midterm exam question; e- Final exam performance
6. <i>Assessment instrument</i>	Program rubric
7. <i>Time (which semester(s))</i>	a-Spring 2023
8. <i>Responsible person(s)</i>	a-Prof. Gaedicke
9. <i>Ways of reporting (how, to who)</i>	The results (qualitative and quantitative) will be reported by faculty to the department chair via completion of the course Faculty Self-Assessment form.
10. <i>Ways of closing the loop</i>	Interaction between chair, faculty and industry advisory board

#### Year 4: 2023-2024

1. <i>Which PLO(s) to assess</i>	PLO b - use effective communication skills to solve practical construction problems, explain and defend the application of advanced construction practices associated with planning, staffing, scheduling and controlling construction projects. (ILO 2,4)
2. <i>Is it aligned with an ILO?</i>	Yes, ILO 2,4
3. <i>Sample (courses/# of students)</i>	CMGT 685 Special Topics in Construction Management
4. <i>SLO from the course</i>	Identify current issues involving the construction industry. Conduct research, and present their findings orally and in writing.
5. <i>Assessment activity</i>	Data Analysis and Project
6. <i>Assessment instrument</i>	Oral presentation rubric
7. <i>Time (which semester(s))</i>	Summer 2023
8. <i>Responsible person(s)</i>	c-Prof. Shahbodaghlu
9. <i>Ways of reporting (how, to who)</i>	The results (qualitative) will be reported by faculty to the department chair via completion of the course Faculty Self-Assessment form.

9. <i>Ways of closing the loop</i>	Interaction between chair, faculty and industry advisory board
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### Year 5: 2024-2025

1. <i>Which PLO(s) to assess</i>	PLO a - Understand and implement risk management, scheduling and estimating, building information modeling, high performance building assessment systems, and project delivery methods. (ILO 1,6)
2. <i>Is it aligned to an ILO?</i>	Yes, ILO 1,6
3. <i>Sample (courses/# of students)</i>	CMGT 670 Construction Enterprise and Risk Management
4. <i>SLO from the course</i>	Analyze the different types of risk and assess their likelihood and impact; Evaluate the use of different quantitative analysis techniques such as Monte Carlo simulation to assess the overall effect of risk at a project and corporate level, thus facilitating decision making under uncertainty.
5. <i>Assessment indicators</i>	a-Midterm exam question; e- Final exam performance
6. <i>Assessment instrument</i>	Program rubric
7. <i>Time (which semester(s))</i>	a-Spring 2020
8. <i>Responsible person(s)</i>	a-Prof. Gaedicke
9. <i>Ways of reporting (how, to who)</i>	The results (quantitative and qualitative) will be reported by faculty to the department chair via completion of the course Faculty Self-Assessment form.
10. <i>Ways of closing the loop</i>	Interaction between chair, faculty and industry advisory board