Stevens Institute of Technology

School of Business

**AACSB  
ASSURANCE OF LEARNING PLAN**

**Master of Science in Enterprise Project Management**

**LEARNING GOAL # 3**

**Student demonstrates mastery of project management knowledge areas and tools to create value for key stakeholders of projects.**

**Responsibility:** Thomas Lechler

February 2021

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# Introduction: Learning Goal #3

This guide covers Learning Goal #3 for the EPM program:

*Student demonstrates mastery of project management knowledge areas and tools to create value for key stakeholders of projects.*

This goal is assessed over two semesters on the program level: This goal requires students to thoroughly understand the basic concepts of project management basics and project value management, how these concepts are used to develop a strategic project plan with the clear focus on value creation for stakeholders of a project as discussed in MGT609, MGT610 and MGT611 and MGT614 courses.

**There is one primary method of assessment:** Eachstudent enrolled in the EPM programis asked to respond to multiple questions that are sent out after taking project management courses.

To complete this exercise successfully, students need to have mastered the fundamental project management terminology and methodology that is defined by the professional standards of project management. In addition, students need to bring much of their learning in the entire project management curriculum to demonstrate knowledge that is necessary to successfully create value in projects.

# Learning Objectives and Traits

The following table shows the objectives and traits to assess goal 3 of the EPM program.

**Learning Goal #3: Student demonstrates mastery of project management knowledge areas and tools to create value for key stakeholders of projects.**

|  |  |
| --- | --- |
| **Objective 1:** *Student has mastered the fundamental project management knowledge areas and methodology.* | |
| **Traits** |  |
| Trait 1: | Mastery over different knowledge areas of the project management standards. |
| Trait 2: | Mastery over different methods for project analytics. |
|  |  |
| **Objective 2:** *Student has knowledge to integrate a business perspective into the project execution.* | |
| **Traits** |  |
| Trait 1: | Knowledge to identify the value proposition of a project. |
| Trait 2: | Knowledge to formulate specific project objectives and metrics reflecting the value focus. |

# Rubrics

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Objective 1** | *Student has mastered the fundamental project management knowledge areas and methodology.* | | | | |
|  | **Trait** | **Poor** | **Good** | **Excellent** | **Score** |
|  | **Value** | **0-69%** | **70%-89%** | **90%-100%** |  |
| Trait 1: | Mastery over different knowledge areas of the project management standards. |  |  |  |  |
| Trait 2: | Mastery over different methods for project analytics. |  |  |  |  |
| **Criterion:** | **Does not meet expectations: 0 – 69 %; Meets: 70- 89%; Exceeds: 90 – 100%** |  |  |  |  |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Objective 2** | *Student has knowledge to integrate a business perspective into the project execution.* | | | | |
|  | **Trait** | **Poor** | **Good** | **Excellent** | **Score** |
|  | **Value** | **0-69%** | **70%-89%** | **90%-100%** |  |
| Trait 1: | Knowledge to identify the value proposition of a project. |  |  |  |  |
| Trait 2: | Knowledge to formulate specific project objectives and metrics reflecting the value focus. |  |  |  |  |
| **Criterion:** | **Does not meet expectations: 0 – 69 %; Meets: 70- 89%; Exceeds: 90 – 100%** |  |  |  |  |

# Assessment Process

A representative sample of EPM students will be assessed over time until graduation.

|  |  |  |
| --- | --- | --- |
| **Where & When Measured?** | **How Measured?** | **Criterion** |
| After students have taken PM courses they will be contacted in different time intervals to respond to multiple choice questions.  Indirect measurements will be taken periodically. | Sampling: Students enrolled in EPM program.  Description: Average scoring at the end of each semester.  Indirect measure – professional certifications during study period (PMP or CAPM), contributions to professional societies, exit surveys, advisory board feedback | 80% of students get a grade of meets or exceeds expectation on the assessment assignment as measured by the rubric for this learning goal. |

# RESULTS OF LEARNING GOAL ASSESSMENT - INTRODUCTION

The results of the learning goal assessments carried will be included below.

**Explanation for direct measurements:**

The learning goal has a learning objective which is measured using a rubric that in turn contains a number of desired “traits”. Students are scored on each trait.

The grading sheets for each student are used to develop a Summary Results Sheet for each learning goal objective. A selection of these Summaries is included below.

The first table in the Summary Results Sheet for a learning objective and trait gives the counts of students falling in each of the three categories:

- Does not meet expectations  
- Meets expectations  
- Exceeds expectations

The right-hand column in the table is used to record the average score of the students on each trait. This table provides an indication of the relative performance of students on each trait.

The second table on each sheet provides the counts of students who fall in each of the above three categories for the overall learning objective.

The person doing the assessment provides explanatory comments and recommendations on the bottom of the Results Summary Sheet. The recommendations improve content or pedagogy changes for the next time the course is given.

**Explanation for indirect measurements:**

Indirect measurements will be taken at periodic intervals. Depending on the measurement chosen a diagnostic tool will be selected for analysis.

## The direct measurements are the multiple choice questions that are sent out to the EPM students in time intervals.

1. An indirect measurement is used periodically. These could include: professional certifications during study period (PMP or CAPM), contributions to professional societies (PMI), exit surveys, alumni surveys, advisory council feedback, employer input, career fair feedback, focus groups, interviews, MBA content exam …

# RESULTS OF ASSESSMENT: Fall 2021

**LEARNING GOAL #3: Student demonstrates mastery of project management knowledge areas and tools to create value for key stakeholders of projects.**

**LEARNING OBJECTIVE # 1: Student has mastered the fundamental project management knowledge areas and methodology.**

**ASSESSMENT DATE: 01-29-22 ASSESSOR: T. Lechler**

**NO. OF STUDENTS TESTED:149 Program: EPM**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Objective 1** | *Student has mastered the fundamental project management knowledge areas and methodology.* | | | | |
|  | **Trait** | **Poor** | **Good** | **Excellent** | **Score** |
|  | **Value** | **0-69%** | **70%-89%** | **90%-100%** |  |
| Trait 1: | Mastery over different knowledge areas of the project management standards. | 21% | 27% | 51% | 84% |
| Trait 2: | Mastery over different methods for project analytics. | 67% | 17% | 17% | 61% |
| **Criterion:** | **Does not meet expectations: 0 – 69 %; Meets: 70- 89%; Exceeds: 90 – 100%** | 44% | 22% | 34% | 56% |

**In total 84% of the students meet or exceed expectations for Trait 1.**

**In total 61% of the students meet or exceed expectations for Trait 2. This needs further investigation. The test questions need to be analyzed in detail.**

**The overall score of objective 1 is 56% of students meet or exceed expectations.**

**LEARNING OBJECTIVE # 2: Student has knowledge to integrate a business perspective into the project execution.**

**ASSESSMENT DATE: 01-29-2022 ASSESSOR: T. Lechler**

**NO. OF STUDENTS TESTED: 56 Program: EPM**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Objective 2** | *Student has knowledge to integrate a business perspective into the project execution.* | | | | |
|  | **Trait** | **Poor** | **Good** | **Excellent** | **Score** |
|  | **Value** | **0-69%** | **70%-89%** | **90%-100%** |  |
| Trait 1: | Knowledge to identify the value proposition of a project. | 19% | 19% | 63% | 82% |
| Trait 2: | Knowledge to formulate specific project objectives and metrics reflecting the value focus. | 25% | 0 | 75% | 75% |
| **Criterion:** | **Does not meet expectations: 0 – 69 %; Meets: 70- 89%; Exceeds: 90 – 100%** | 22% | 19% | 69% | 88% |

**In total 82% of the students meet or exceed expectations for Trait 1.**

**In total 75% of the students meet or exceed expectations for Trait 2. This needs further investigation. The test questions need to be analyzed in detail.**

**The overall score of objective 2 is 79% of students meet or exceed expectations.**

|  |  |  |  |
| --- | --- | --- | --- |
|  | **Not meet Expectations** | **Meets Expectations** | **Exceeds Expectations** |
| **Total Students by Category** *(Based on Average score across all objectives and traits)* | **28%** | **20.5%** | **51.5** |
| **Students meeting or exceeding expectations:**  **Target is 90%** | | **72%** | |

**Comments:**

**This is the first**

**REMEDIAL ACTIONS:**

**Goal 3 is not accomplished. We just started with collecting data differently and it is too early to draw conclusions.**

**We need also to check the measurement tool for Trait 2 and Trait 4. Some questions could lead to misunderstanding. Also, the number of responses for these two traits are very low.**

# Outcomes from Previous Assessments:

**OUTCOMES: EPM LEARNING GOAL # 3 AFTER 1 ROUND OF ASSESSMENT**

The following table shows the average scores on each goal objective over time

|  |  |  |
| --- | --- | --- |
|  | EPM Goal 3 | |
|  | Objective 1 | Objective 2 |
| Fall 2021 | 56% | 88% |
|  |  |  |

# Close Loop Process – Continuous Improvement RECORD

**Assurance of Learning  
Assessment/Outcome Analysis  
Close Loop Process - Continuous Improvement Record**

**Program:** Master of Science in Enterprise Project Management (EPM)

**Goal 3:** Students will be able to formulate and articulate plans to align business and IT

**Goal Owner:** Thomas Lechler

**Where Measured:** Program level assessment over two semesters*.* Assessed in the fall and spring semester each year.

**How Measured:**  EPM students will be sent three times per semester multiple choice questions. Indirect measurement taken periodically –exit surveys, advisory board feedback ...

**Closing the Loop: Actions taken on specific objectives**

|  |  |
| --- | --- |
| **Objective 1** | Students recognize the role of the CIO as a corporate executive and the IT organization as a contributor to the strategic direction of the firm |
| **When Assessed** | Fall 2021 |
| **Remedial Action** | 1. Revise test items of trait 2 of objective 1 and trait 2 of objective 2.  2. Increase students’ response rates. |
| **Outcome from previous assessment** | THIS WILL BE BLANK FOR THE FIRST ASSESSMENT |
|  |  |

# APPENDIX A

Appendix A: Data for Fall 2021 Assessment

