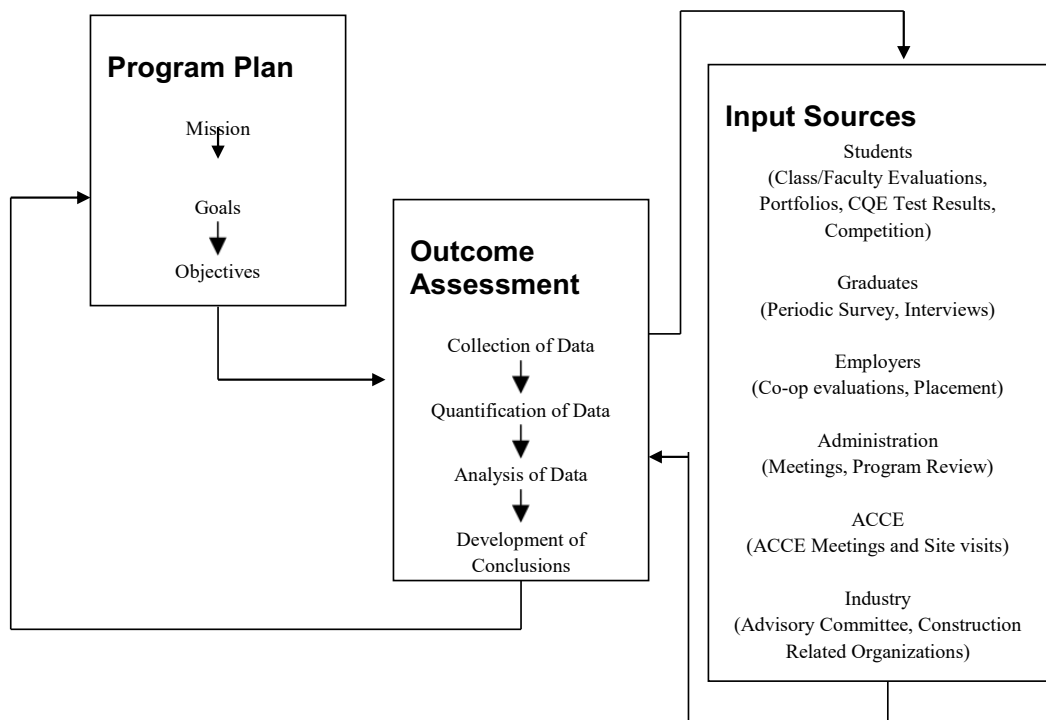


Quality Improvement Plan for EMU/CM Program

In general, the quality plan is a conscientious effort on the part of CM program CM Faculty and administration to evaluate the unit in a comprehensive manner. The plan is based on the Program Mission, which in turn leads to the development of Degree Program Objectives and Student Learning Outcomes. The Degree Program Objectives and Student Learning Outcomes support the Program Mission and are shaped and influenced by input from a variety of sources. While some sources and procedures are more formal, valuable input is also acquired in less structured ways. The chart below depicts the quality plan of the CM program. **Diagram below needs some editing:**



Based on various input sources, the CM Faculty set the Degree Program, Objectives, and anticipated outcomes of the educational program, and assess them for needed resources and input to attain them. The assessment process reflects a philosophy of continuous improvement adopted by the School of School of Visual and Built Environments, the College of Technology, and Eastern Michigan University.

Assessment Plan (based on the following components):

1. Mission Statement of the Construction Management Program.
2. CM Degree Program Objectives
3. Student Learning Outcomes of the Construction Program.
4. Performance Criteria to Measure the Achievement of the Outcomes/Objectives.
5. Evaluation Methodology for the Data.

The Assessment Plan will include a description of those assessment tools to be used to measure Degree Program Objectives and Learning Outcomes. Among others, these assessment tools may include:

1. benchmarking of incoming students,
2. surveys of relevant constituencies,
3. certification or competency-based examinations,
4. Outcomes-based techniques at the course level and capstone courses.

Assessment tools to be used to measure Degree Program Objectives and Student Learning Outcomes. Among others, these assessment tools may include:

1. Outcomes-based techniques at the course level and capstone courses such as class assignments, tests, projects and reports.
2. Certification or competency-based examinations.
3. Employment placement.
4. Surveys of relevant constituencies.

EMU CM Program Constituents

- 1) Students
- 2) CM Faculty
- 3) Alumni
- 4) Industry Advisory Committee
- 5) Employers

Definitions

Degree Program Objectives (DPO) – statements describing degree program accomplishments in support of our mission.

Student Learning Outcomes (SLO) – statements that describe the skills and knowledge that students are expected to know by the time of graduation and that support the educational (degree) program objectives.

EMU CM Program Mission

To educate and fully prepare hands-on, management and business-oriented professionals to work in and lead the U.S. and global construction industry.

The EMU Construction Management (CM) Degree Program Objectives are:

1. *Keep the CM curriculum up-to-date in order to meet all EMU and ACCE accreditation requirements.*

2018-19 Tasks

T1.1 Change the name of CNST 450 from Fundamentals of Project Management to Senior Capstone.

<u>Input Data:</u>	Feedback from CM Faculty.
<u>Measurement:</u>	Approval of CM Faculty.
<u>Performance Criteria:</u>	Final EMU approval and implementation of the new course name in 2018 Catalog.
<u>Results (2018-2019):</u>	This task was not completed due to time taken to move into the newly renovated lab.

Upcoming 2019-20 Tasks

T1.1 Change the name of CNST 450 from Fundamentals of Project Management to Senior Capstone.

<u>Input Data:</u>	Feedback from CM Faculty.
<u>Measurement:</u>	Approval of CM Faculty.
<u>Performance Criteria:</u>	Final EMU approval and implementation of the new course name in 2021 Catalog.

T1.2 Review EMU Catalog construction management course descriptions including prerequisites and update as needed.

<u>Input Data:</u>	Feedback from CM Faculty.
<u>Measurement:</u>	Approval of CM Faculty.
<u>Performance Criteria:</u>	Final EMU approval and implementation of the new course name in 2021 Catalog.

2. *Keep the CM program accredited by the American Council for Construction Education (ACCE)*

2018-19 Tasks

T2.1 CM Faculty to participate in ACCE accreditation visits and/or national meetings.

<u>Input Data:</u>	Participation in ACCE events.
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Measurement: The number of ACCE events attended.
Performance Criteria: Average of one CM Faculty per year attending an ACCE event.
Results (2018-2019): Dr. Korkmaz attended the ACCE Annual Meeting, July 24-26, 2019 in Philadelphia, PA.

T2.2 Submit ACCE reports according to schedule

Input Data: Reports completed and submitted on time.
Measurement: Data Form, Information Sheet.
Performance Criteria: Number of reports completed and submitted.
Results (2018-2019): Data Form and Information Sheet were completed and submitted.

T2.3 CM Faculty to further assess Degree Program Objectives (DPOs) related to Student Learning Outcomes (SLOs).

Input Data: SLOs and DPOs assessed.
Measurement: The number of SLOs and DPOs fully assessed.
Performance Criteria: 1/3 of the SLO's and all Degree Program Objectives assessed annually.

Results (2018-2019): Program Quality Improvement Plan was updated. Degree Program Objectives were revised. Mission Statement was reviewed. Artifacts such as student work and surveys were collected for various courses.

T2.4 CM faculty to document Self Study for ACCE Reaccreditation.

Input Data: Collect curriculum materials, student work and surveys.
Measurement: Collation of materials, student work and surveys.
Performance Criteria: Quantum of materials, student work and surveys.

Results (2018-2019): At least 1/3 of the SLO's and all Degree Program Objectives were assessed.

Upcoming 2019-20 Tasks

2018-19 Tasks

T2.1 CM Faculty to participate in ACCE accreditation visits and/or national meetings.

Input Data: Participation in ACCE events.
Measurement: The number of ACCE events attended.
Performance Criteria: Average of one CM Faculty per year attending an ACCE event.

T2.2 Submit ACCE reports according to schedule

Input Data: Reports completed and submitted on time.
Measurement: Data Form, Information Sheet.

Performance Criteria: Number of reports completed and submitted.

T2.3 CM Faculty to further assess Degree Program Objectives (DPOs) related to Student Learning Outcomes (SLOs).

Input Data: SLOs and DPOs assessed.

Measurement: The number of SLOs and DPOs fully assessed.

Performance Criteria: 1/3 of the SLO's and all Degree Program Objectives assessed annually.

T2.4 CM faculty to document Self Study for ACCE Reaccreditation.

Input Data: Collect curriculum materials, student work and surveys.

Measurement: Collation of materials, student work and surveys.

Performance Criteria: Quantum of materials, student work and surveys.

3. Ensure CM students are given ample opportunity to participate in hands-on learning experiences.

2018-19 Tasks

T3.1 CM students and CM Faculty will attend ASC regional competition annually.

Input Data: Competition participation.

Measurement: Number of teams competing.

Performance Criteria: At least one team of students will be sent to the ASC regional competition annually

Results (2018-2019): One Commercial Team participated in the ASC regional Competition in Chicago (October 18-21, 2018). A total of 6 students participated and one faculty member.

T3.2 To implement field lab in the Electrical, Mechanical, Equipment Systems course, CNST 303.

Input Data: Field lab assignment.

Measurement: Student documentation and submission of field lab accomplishments such as narratives, sectional models, and photo documentation of process experienced.

Performance Criteria: Students' submission of one or more field lab paraphernalia in area(s) within or related to Electrical, Mechanical, Equipment Systems.

Results (2018-2019): Student submissions have been documented.

T3.3 To implement Michigan Concrete Association (MCA) and American Concrete Institute (ACI) Level I Concrete Field Testing Certification in the Construction Materials course, CNST 212.

<u>Input Data:</u>	Students taking the certification test.
<u>Measurement:</u>	Number of students passing the certification test.
<u>Performance Criteria:</u>	70% of the students will pass the test and gain certification.
<u>Results (2018-2019):</u>	On average, between the Fall and Winters sections of CNST 212, over 70% of the students passed the test and gained certification.

Upcoming 2019-20 Tasks

T3.1 CM students and CM Faculty will attend ASC regional competition annually.

<u>Input Data:</u>	Competition participation.
<u>Measurement:</u>	Number of teams competing.
<u>Performance Criteria:</u>	At least one team of students will be sent to the ASC regional competition annually

T3.2 To implement field lab in the Electrical, Mechanical, Equipment Systems course, CNST 303.

<u>Input Data:</u>	Field lab assignment.
<u>Measurement:</u>	Student documentation and submission of field lab accomplishments such as narratives, sectional models, and photo documentation of process experienced.
<u>Performance Criteria:</u>	Students' submission of one or more field lab paraphernalia in area(s) within or related to Electrical, Mechanical, Equipment Systems.

T3.3 To implement Michigan Concrete Association (MCA) and American Concrete Institute (ACI) Level I Concrete Field Testing Certification in the Construction Materials course, CNST 212.

<u>Input Data:</u>	Students taking the certification test.
<u>Measurement:</u>	Number of students passing the certification test.
<u>Performance Criteria:</u>	70% of the students will pass the test and gain certification.

4. CM Faculty and students maintain construction industry contacts.

2018-19 Tasks

T4.1 CM Faculty will maintain affiliations with professional associations.

<u>Input Data:</u>	Membership in and affiliation with professional associations; e.g., AGC (Associated General Contractors), AIA (American Institute of Architects), PMI Project Management Institute), ASCE (American Society of Civil Engineers), ATMAE, (The Association of Technology, Management, and Applied Engineering), ASEE (American Society of Engineering Education), WCA (Washtenaw
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Contractors Association), BRAG (Builders and Remodelers Association of Greater Ann Arbor), ESD (Engineering Society of Detroit), etc.

Measurement: CM Faculty attendance of professional association activities, committee membership, as well as service and contributions to affiliated associations.

Performance Criteria: Average one affiliation per full time CM Faculty annually.

Results (2018-2019): Following is a list of faculty affiliations for the 2018-2019 school year: WCA, AGC, ATMAE (Dr. Stein), AIA (Dr. Ilozor), ASC (Dr. Stein), BRAG (Dr. Stein), PMI, ESD (Dr. Moylan), ASCE, ASEE (Dr. Korkmaz),

T4.2 CM Faculty will maintain an active industry advisory committee.

Input Data: Faculty and Industry Advisory Committee meetings

Measurement: Number of meetings annually.

Performance Criteria: Host one or two industry advisory committee meetings annually.

Results (2018-2019): Two CM Advisory Committee meeting were held: October 12, 2018 and March 15, 2019.

T4.3 CM Faculty will maintain a CM alumni group to assist with student-centered activities such as our scholarship golf outing and guest speaker series.

Input Data: Alumni involved events.

Measurement: Number of events.

Performance Criteria: Sponsor at least two alumni guest speaker events annually and an alumni scholarship golf outing.

Results (2018-2019): Golf outing: Alumni and John Weeks Scholarship Golf Outing, 9/12/2018

Alumni meetings: Meetings held monthly from September through April.

Alumni guest speakers: Ron Jaworski, Project Manager, CBRE Inc., 10/4/18; Bill Lincoln, VP, NEC, 3/11/19.

T4.4 To incorporate one-on-one alum/student mentoring partnerships in the Introduction to Construction course.

Input Data: Instituted mentoring partnerships.

Measurement: Number of mentoring partnerships.

Performance Criteria: Ongoing mentoring partnerships.

Results (2018-2019): This program was set in motion during the Winter 2019 semester. It was coordinated with the CNST 125 course, (Introduction to Construction) and was sponsored by the EMU/CM Alumni Association. There were 15 alumni mentors who participated

Upcoming 2019- 2020 Tasks

T4.1 CM Faculty will maintain affiliations with professional associations.

<u>Input Data:</u>	Membership in and affiliation with professional associations; e.g., AGC (Associated General Contractors), AIA (American Institute of Architects), PMI Project Management Institute), ASCE (American Society of Civil Engineers), ATMAE, (The Association of Technology, Management, and Applied Engineering), ASEE (American Society of Engineering Education), WCA (Washtenaw Contractors Association), BRAG (Builders and Remodelers Association of Greater Ann Arbor), ESD (Engineering Society of Detroit), etc.
<u>Measurement:</u>	CM Faculty attendance of professional association activities, committee membership, as well as service and contributions to affiliated associations.
<u>Performance Criteria:</u>	Average one affiliation per full time CM Faculty annually.

T4.2 CM Faculty will maintain an active industry advisory committee.

<u>Input Data:</u>	Faculty and Industry Advisory Committee meetings
<u>Measurement:</u>	Number of meetings annually.
<u>Performance Criteria:</u>	Host one or two industry advisory committee meetings annually.

T4.3 CM Faculty will maintain a CM alumni group to assist with student-centered activities such as our scholarship golf outing and guest speaker series.

<u>Input Data:</u>	Alumni involved events.
<u>Measurement:</u>	Number of events.
<u>Performance Criteria:</u>	Sponsor at least two alumni guest speaker events annually and an alumni scholarship golf outing.

T4.4 To continue with the one-on-one alum/student mentoring partnerships in the Introduction to Construction course.

<u>Input Data:</u>	Instituted mentoring partnerships.
<u>Measurement:</u>	Number of mentoring partnerships.
<u>Performance Criteria:</u>	Ongoing mentoring partnerships.

5. Improve recruitment efforts to attract more CM majors to campus.

2018-19 Tasks

T5.1 CM Faculty/Students will attend recruiting events.

Input Data: Recruiting events attended by CM Faculty/students.
Measurement: CM Faculty and student ambassadors to attend recruiting events. Such as Fallfest, Explore Eastern, Eastern Scholars, Admitted Student Reception and/or similar setups visiting our program/lab; Just Build It Expo; Open House, Digital Divas; and targeted outreach.
Performance Criteria: Average one or two recruiting events annually.

Results (2018-2019): Faculty attended Fallfest, Explore Eastern, Eastern Scholars, Just Build It Expo and Admitted Student Reception on a rotating basis throughout 2018-2019.

T5.2 Improve marketing/communication with prospective students.

Input Data: EMU Website
Measurement: EMU Website is updated.
Performance Criteria: Website is easily accessible and includes public information.

Results (2018-2019): *Easternconstructors.org* was updated biweekly to include new announcements and photos. EMU website was updated to include public information and other changes.

Upcoming 2019-2020 Tasks

T5.1 CM Faculty/Students will attend recruiting events.

Input Data: Recruiting events attended by CM Faculty/students.
Measurement: CM Faculty and student ambassadors to attend recruiting events. Such as Fallfest, Explore Eastern, Eastern Scholars, Admitted Student Reception and/or similar setups visiting our program/lab; Just Build It Expo; Open House, Digital Divas; and targeted outreach.
Performance Criteria: Average one or two recruiting events annually.

T5.2 Improve marketing/communication with prospective students.

Input Data: EMU Website
Measurement: EMU Website is updated.
Performance Criteria: Website is easily accessible and includes public information.

T5.3 To increase efforts of recruiting female students to the program.

Input Data: Recruiting events targeting female students
Measurement: Number attended of such events.
Performance Criteria: Two or more events attended annually.

6. *Maintain an active student organization (Eastern Constructors).*

2018-19 Tasks

T6.1 CM Faculty and Eastern Constructors will be involved in community service projects.

Input Data: Eastern Constructor service projects.
Measurement: Number of community projects involved in.
Performance Criteria: CM Faculty and Eastern Constructors will participate in one community project annually.

Results (2018-2019): The Eastern Constructors renovated and reconditioned twelve A-frame displays used for the EMU Design Expo (Winter 2019).

T6.2 CM Faculty and Eastern Constructors will sponsor CM program social events.

Input Data: Eastern Constructor social events.
Measurement: Number of social events sponsored (such as hardhat ceremonies and after Career Fair socials).
Performance Criteria: CM Faculty and Eastern Constructors will participate in one or more events annually.

Results (2018-2019): Eastern Constructor cookout was held (12/6/18) and two Hardhat Ceremonies were held (11/29/18 & 4/11/19).

T6.3 CM Faculty and Eastern Constructors will sponsor guest speakers and field trips.

Input Data: Sponsored guest speakers and conducted field trips.
Measurement: Number of guest speakers sponsored and field trips conducted.
Performance Criteria: CM Faculty and Eastern Constructors will sponsor one or more guest speaker events and one or more field trips annually.

Results (2018-2019): Field trips: Sill Hall field trip (4/17/19).
Guest Speakers: Ron Jaworski, Project Manager, CBRE Inc (10/4/18); Claire LaPointe, Aristeo Construction (11/15/18), Bill Lincoln, VP, NEC (3/11/19); Joe Harden, AA Building Inspector (3/20/19); James Harless, Industrial Chemist (4/9/19); Tom Zimmerman, ProPex Piping (4/11/19).

T6.4 To maintain a student group website.

Input Data: Existing Eastern Constructor website.
Measurement: Maintained Eastern Constructor website.
Performance Criteria: Up-to-date website.

Results (2018-2019): Dr. Stein and Adam Bogedain (Alum) updated easternconstructors.org with new menu tabs and homepage.

Upcoming 2019-20 Tasks

T6.1 CM Faculty and Eastern Constructors will sponsor CM program social events.

- Input Data: Eastern Constructor social events.
Measurement: Number of social events sponsored (such as hardhat ceremonies and after Career Fair socials).
Performance Criteria: CM Faculty and Eastern Constructors will participate in one or more events annually.

T6.2 CM Faculty and Eastern Constructors will sponsor guest speakers and field trips.

- Input Data: Sponsored guest speakers and conducted field trips.
Measurement: Number of guest speakers sponsored and field trips conducted.
Performance Criteria: CM Faculty and Eastern Constructors will sponsor one or more guest speaker events and one or more field trips annually.

T6.3 To maintain a student group website.

- Input Data: Existing Eastern Constructor website.
Measurement: Maintained Eastern Constructor website.
Performance Criteria: Up-to-date website.

7. Maintain a system for assisting CM students to find internships and fulltime employment.

2018-19 Tasks

T7.1 To host CM Career Fairs for internships and fulltime employment.

- Input Data: CM Career Fairs hosted.
Measurement: Number of Career Fairs hosted per year.
Performance Criteria: One or more Career Fairs offered per year.
Results (2018-2019): Two CM Career Fairs were held (10/8/18 and 3/14/19)

T7.2 Post job openings through the Eastern Constructors email system.

- Input Data: CM Job posting.
Measurement: Number of CM job postings.
Performance Criteria: 15–20 CM job postings per year.
Results (2018-2019): Weekly email job posting were sent to Eastern Constructors throughout the 2018-2019 school year.

Upcoming 2019-2020 Task

T7.1 To host CM Career Fairs for internships and fulltime employment.

- Input Data: CM Career Fairs hosted.
Measurement: Number of Career Fairs hosted per year.
Performance Criteria: One or more Career Fairs offered per year.

T7.2 Post job openings through the Eastern Constructors email system.

Input Data: CM Job posting.

Measurement: Number of CM job postings.

Performance Criteria: 15–20 CM job postings per year.