**Outcome:** Students will demonstrate their resourcefulness, technical knowledge, problem-solving, critical thinking, and analytical skills by completing a Capstone Project in conjunction with one of ICC’s industrial partners. The student team will lead and be responsible for the project technical details, developing the solution’s technical aspects, evaluation of the project feasibility, and executing project solution with guidance from the program instructor(s).

This course and competency requirement are completed in conjunction with course ENGT-2330 Professional IV.

**Lecture:**

1. Introduction to the industry partner and high-level project overview.
2. Safety
   1. Students will successfully complete the industry partner’s employee safety program.

**Demo(s):**

Partner’s Facility

1. Initial site visit and tour.

**Homework:**

1. Completion of the Capstone Project, associated documentation and final presentation, e.g.
   1. Information required from stakeholders
   2. The scope of work document technical content
   3. Research and information required from others
   4. Developing technical requirements to successfully complete the project
   5. Developing possible technical solutions
   6. Technical analysis of possible solutions
   7. Drawings or other required project technical documentation
   8. Project completion and final stakeholder presentation
   9. Others?

**Assessment:**

1. 100% Compliance with industry partner’s safety program
2. Compliance with industry partner’s work procedures and permitting requirements.
3. Industry partner’s project evaluation and feedback.
4. Percent of the project completed within the allotted timeframe.
5. Instructors’ observation of the individuals professional and technical performance, e.g.
   1. Teamwork
   2. Quality
   3. Creativity
   4. Problem Solving
   5. Leadership
   6. Communication
   7. Project Management
   8. Presentation