



2022

AMERICAN SOCIETY OF CIVIL ENGINEERS®  
CONSTRUCTION INSTITUTE STUDENT SYMPOSIUM COMPETITION™

# RULES AND REGULATIONS



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## Section 1: Overview

The Construction Institute (CI) is one of nine institutes that represent the American Society of Civil Engineers (ASCE) to provide professionals, students, and organizations, the resources to enhance skills, grow their network, and shape the future of the civil engineering industry. The vision of the Construction Institute is to be the leader in promoting quality in construction.

CI has always planned to be a leader in institute participation among ASCE student conferences, and with help from their young professionals council (YPC), a competition was developed to provide a construction engineering experience for engineering students. CI hopes to challenge students to work “towards” something and not just “on” something; showing that project management is less about managing projects and more about leading people. With CI’s devoted network across the country and the assistance of ASCE student symposium hosts, the Construction Institute is confident that students will get the most out of their Construction Institute Student Symposium Competition. This is the second year offering this competition, and it is being held as a pilot at select student symposia.

## Section 2: Participation and Teams

Each ASCE student chapter that participates in a 2022 ASCE Student Symposium that is selected to pilot the competition will be eligible to register one team of four or five students for the competition. Each student must be a member of an ASCE Student Chapter in good standing, be a Society Student Member of ASCE, a registered participant of the student symposium, and an undergraduate student enrolled during all or part of the current academic year. For registration, the symposium host will coordinate with ASCE to send student chapters an online registration form to complete by February 1, 2022. The following information will need to be provided on the registration form:

- Team name (company name) and student chapter
- Each team member’s first and last name
- Each team member’s ASCE ID number
- Designated captain and email

## Section 3: Competition Information and Requirements

Congratulations! Your team’s Invitation to Bid for the 2022 *Construction Project* was accepted! The ASCE CI {herein defined as ENGINEER} is releasing a Request for Presentations (RFP) on behalf of the OWNER. To be awarded this job, your team {herein defined as CONTRACTOR} must present on its plan for construction.

Each CONTRACTOR will be tasked with reviewing a set of construction documents, provided by the ENGINEER on behalf of the OWNER and their *Construction Project*. The CONTRACTOR will then be required to complete a report for construction planning, including, but not limited to: a construction schedule, a contractor's estimate, and project management proposal templates. The OWNER has also requested that the CONTRACTOR deliver a presentation explaining their proposed approach to the project and final project deliverables.

**3.1 Ethics and Required Conduct** – This competition is to be conducted with the highest regard for ethical responsibility per [ASCE's Code of Ethics](#). All members of ASCE, regardless of their membership grade or job description, commit to all of the ethical responsibilities in this Code. All ASCE members should make themselves familiar with ASCE's Code of Ethics.

All participants shall act professionally and respectfully at all times. Failure to act appropriately may result in sanctions, disqualifications, and loss of invitations to future symposia competitions or Society-wide competitions. The inappropriate use of language, alcohol, or materials, uncooperativeness, or general unprofessional or unethical behavior will not be tolerated.

**3.2 Participant Requirements** – Considering the format and objective of the competition, students shall come prepared with any materials they deem necessary to be successful. Consider the competition as “open book”; where anything goes in the creation of the deliverables and the creation of the presentation. For the actual delivery of the presentation, no one other than the team members themselves are allowed to present to the judges.

All teams will receive project specific information (scope of work) in the RFP, as well as project documents (drawings and specifications), on January 25, 2022. This Rules and Regulations document is for competition specific information and not project specific information. The RFP will also include **Appendices A-E** as they **are not included in this document** (see Section 4: Deliverables).

**3.3 Safety** – All participants are responsible for complying with all campus protocols and procedures including but not limited to COVID-19 guidelines related to in-person meetings, masking, social distancing, etc., at all times in connection with planning, preparation, or participation in the competition.

Given the continually changing environment surrounding COVID-19, virtual competition provision are provided in the rules and may be activated in coordination with ASCE.

## Section 4: Deliverables

**4.1 Schedule** – Each CONTRACTOR shall submit a construction project schedule, performed either by hand or in MS Excel or similar (advanced scheduling programs not allowed). The schedule shall be performed using CPM and displayed as a Gantt chart.

**4.2 Estimate** – Each CONTRACTOR shall submit a contractor’s estimate. The OWNER has provided a list of bid items to price in the RFP. Consider all other items that can be reasonably inferred to complete the project as supplied and furnished by OWNER. Perform take-offs using the Contract Documents and tabulate in MS Excel or similar, or by hand (advanced estimating software not allowed).

**4.3 Technical Assessment & Risk Management** – In any construction project, there will be some level of risk and risk management. In your project deliverables, it is important to not only address how long the project will take and how much it will cost, but it is essential for the owner to fully believe that the contractor understands risk and will plan for it. The OWNER is asking for completed templates (provided in Appendices C-E) to show your understanding of risk management.

Appendix C) Material, Personnel, and Equipment Staging and Procurement

Appendix D) Health, Safety, and Environment (HSE)

Appendix E) Quality Assurance and Quality Control (QA/QC)

## Section 5: Oral Presentation

Delivering an informative and validating presentation to a client is a critical aspect of the proposal process. To “Win the Job”, the project development and pre-construction teams must show the client that they fully understand and will satisfy the owner’s concerns and desires.

Oral presentations must be delivered in English and in a professional manner: one in which a professional engineer would give to a client. Each team will be given 15 minutes to deliver a presentation addressing the OWNER’S concerns and desires. This is including but not limited to the project deliverables and their team’s approach to the construction of the project. There will be no slides, PowerPoints, or videos allowed. The OWNER simply wants an in-person talk from each CONTRACTOR to make their decision about who is right for the job. Each team member must speak for at least one minute. At the completion of the presentation, the judges will ask each team member one question regarding the information presented and/or in the project deliverables submitted beforehand. This question and answer period should last no longer than 10 minutes.

**A 10-point deduction in presentation score will be applied for:**

- **Each team member not speaking for at least one minute**

- **If the presentation exceeds or is under 15-minutes by two or more minutes**
- **If a Power Point, slides, or video is used**

Presentations will be delivered in-person to the panel of judges and an audience if possible, to be determined by the host's location. The locations, the time slots for each team, and the order of presentations will be delivered to participating student chapters by onsite registration. The CI representative hosting the call will do their best to maintain a rate of 30 minutes for each team to present, answer questions, and exit the stage.

## **Section 6: Submission Details**

The symposium host will coordinate with ASCE to provide teams with instructions for how to submit their project estimates, schedules, and templates via a unique link to ASCE's Cerberus ftp server. It is preferred that all deliverables are compiled into one PDF and submitted.

- Title of the PDF must be: "CI Construction Competition: *Name of Symposium: Your Company Name*"

This document, also available on the [ASCE Student Conferences, Symposia, & Competitions page of the ASCE Website](#), defines the 2022 ASCE Construction Institute Student Symposium Competition Rules. Requests for Information (RFI) should be sent to the 'discussion' post section of the [ASCE Construction Institute Student Symposium Competition Collaborate site](#). Each RFI will be reviewed by ASCE's website managers and then will be given to CI to read and answer. You may not see your post immediately after you post it. Clarifications will be posted on the Collaborate Site every Friday starting September 24, 2021 until February 25, 2022. Each post will address the questions received from the previous week through the Wednesday before 11:59 PM Eastern Time. The cutoff date for submitting a RFI is Wednesday, February 23, 2022 at 11:59 PM EST. Those received after this date will not be acknowledged or addressed. Teams are strongly encouraged to submit RFIs to avoid misinterpretation of the rules. All teams are responsible for all information provided in the Rules and Regulations and RFI responses posed to the Collaborate site.

## **Section 7: Symposium Scoring and Recognition**

Teams will be scored based upon the judge's discretion using the rubric attached in Appendix F. The top three scoring teams will receive points that may be applied to symposium overall student chapter scoring. In addition, the first, second, and third place teams and their members will receive recognition awards. The breakdown of this competition's "worth" or the amount of points going to the student chapters' overall symposium score is to be determined by the student host planning committee.

**Failure to provide team name and member information prior to deadline or on-time deliverable submission will result in a 25-point reduction from final score (-25/100pts).**

## **Section 8: Competition Schedule**

Release of CI Student Symposium Competition Rules and Regulations – 9/7/2021

Release of Contract Documents and RFP – 1/25/2022

Registration form w/ Team Captain, Team Name, Team Members, and Student Chapter – 2/1/2022

Final Day to Submit RFIs to CI – 2/23/2022 (Final RFIs answered 2/25/2022)

RFP Deliverables Submission – 3/14/2022

Symposium Dates Vary – Mid March through End of April 2022

Presentations (Order and times will be given to each team in a mailer) – **TBD** by host planning committee.

Awards for 2022 ASCE CI Student Symposium Competition – Symposium Ceremony

The only project item to be completed during the conference is the delivery of the presentation (see Section 5).

## **Section 9: Concepts and Vocabulary**

All students that wish to participate and sign up are encouraged to familiarize themselves with construction concepts and vocabulary before the competition. To find a list of popular terms, you can visit the CI Student Days website [here](#). Note that this is not an all-inclusive list of what you should expect to see during the competition, nor are you guaranteed to see all of these terms during the project.

## **Section 10: Virtual Symposium Option**

In the event that a virtual competition is deemed necessary, the ASCE Construction Institute Student Symposium Competition would receive the following change to adapt.

100% ONLINE – Where if a decision is made for the student symposium to be held virtually:

Change 1. All presentations will be delivered live and online at a time TBD during the student symposium.

## **Section 11: Judging**

CI will assist the host planning committee in the finding of a minimum of three (3) judges for the reviewing of project deliverables and the assessment of the team presentations. The panel will be composed of industry professionals and/or those with previous involvement in the

*Construction Project.* Judges will have the authority to score teams based on their individual interpretation of the rules and rubric criteria with the guidance of the CI representative on campus or virtual. The CI representative will be responsible for ensuring the judges are competent in the understanding of the scope of work in regard to the *Construction Project*.

Scoring data shall be recorded for each team that competes. Official judging forms shall be used and will be provided by the CI representative after judges' training. The information from the judges' data sheets is entered into a spreadsheet which tabulates the official results of the competition. A summary report will be provided to each symposium host for their records and distribution.



<b>Deductions Rubric</b>		<b>Overall Score</b>
<b>Team (Company) Name:</b> <b>Student Chapter:</b>	<b>Points Deducted Possible</b>	<b>Score</b>
<b>Submission Requirements</b> Failure for team to submit names and team information by the deadline of February 1, 2022 <i>(-25 points)</i>  Failure to submit RFP deliverables by March 14, 2022 <i>(-25 points)</i>	<b>50</b>	
<b>Technical Presentation</b> Failure for each team member to speak for at least 1 minutes <i>(-10 points)</i>  Failing to keep the presentation within 15 minutes +or- 2 minute <i>(-10 points)</i>  The use of a Power Point, slides, or video with the delivery of the presentation <i>(-10 points)</i>	<b>30</b>	
<b>Subtotal</b>	<b>80</b>	
<b>Total Deductions</b>		

<b>Scoring Rubric</b>		<b>Overall Score</b>	
<b>Team (Company) Name:</b> <b>Student Chapter:</b>		<b>Possible Points</b>	<b>Score</b>
<b>Construction Schedule</b> Gantt Chart illustrates understanding of construction sequence (7.5 points) Durations and dates are realistic (5 points) Schedules contain all required items (Milestones, Critical Tasks, Specified Tasks requested in the RFP) (2.5 points)		<b>15</b>	
<b>Construction Estimate</b> Contractor's Estimate contains all Bid Items (5 points) Estimate shows accuracy of quantities (10 points)		<b>15</b>	
<b>Material, Personnel, Equipment Management</b> 3 of 9 Task Hazards are Described and Planned for (3 points) Template shows understanding of risk items through clear and concise descriptions (7 points)		<b>10</b>	
<b>Health, Safety, and Environment Management</b> 3 of 9 Task Hazards are Described and Planned for (3 points) Template shows understanding of risk items through clear and concise descriptions (7 points)		<b>10</b>	
<b>Quality Assurance &amp; Quality Control</b> 3 of 9 Task Hazards are Described and Planned for (3 points) Template shows understanding of risk items through clear and concise descriptions (7 points)		<b>10</b>	
<b>Technical Presentation</b> Presentation Professionalism; Energy/ Excitement; Delivery (5 points) Understanding of the project and deliverables (20 points) Organization and effort put forth to hit most talking points (10 points) Company introduction, history, qualifications (5 points)		<b>40</b>	
<b>Subtotal</b>		<b>100</b>	
<b>Deductions</b>		<b>(80)</b>	
<b>Total Score</b>			