



*Performance Mechanical, Inc.*

The Northern California Mechanical Contractors Association and Performance Mechanical, Inc. (a Joint Committee of Mechanical Professionals) welcome competitors to the 2015 Associated Schools of Construction (ASC) Open Student Competition.

Once your School has signed up for the competition and you have determined your final team, please forward a copy of your individual resumes and a team photo that identifies each participant to Performance Mechanical, Inc. at PO Box 1516 Pittsburg, CA 94565, Attention: Rick Carpenter Jr.

General questions directed via e-mail to Rick Carpenter at [rcarpenterjr@perfmech.com](mailto:rcarpenterjr@perfmech.com) or Bill Whitney at [wwhitney4952@aol.com](mailto:wwhitney4952@aol.com).

**Problem Description:**

This year's project consists of rebuilding the majority of the natural gas injection/withdrawal processing piping and equipment at a natural gas processing platform located near Stockton, CA. The scope of work to be considered is the demolition of piping and equipment on the existing platform, installation of piping and equipment from the process deck back to the well head tie-ins, and auxiliary piping systems.

Cost estimating is a component of this year's project however; due to project constraints a large portion of this year's project will be the execution, scheduling, and constructability of the project.

The scope of work is as follows:

- Demolition of Equipment and piping
- Tie-ins and piping for a total of 34 gas wells.
- Equipment installation
- Systems including:
  - Main gas
  - Methanol

- Glycol
- Instrument/Service Air
- Hydraulic
- Waste Water
- Waste Water Production Fluid
- Vents
- Materials that will be used for this project will be as follows:
  - A106 Carbon Steel Piping
  - High Yield (X-42, X-52) Carbon Steel Piping
  - SS 304L Stainless Piping
  - SS 304L Stainless Tubing
- Methods of connections for this project will be as follows:
  - Butt welding
  - Socket welding
  - Compression connections on stainless tubing
  - Threaded connections

The RFP will require each team to provide Rates, Fees, and Team type of proposal. Specifically the RFP will require the following:

- Labor rates for field and shop.
- Fixed General and Administrative Costs
- Fixed Overhead and Profit Percentage
- Lump Sum Cost Estimate
- CPM Schedule
- Written Execution Plan
- Man loading/Crew Size
- Value Engineering/Cost Savings Ideas
- Team Approach

#### Judging Criteria

The successful team solution will be based on the teams understanding of the project, realistic construction schedule & man loading, financial proposal, proposed team, and presentation.

Each team will be “Scored” on the following items:

Lump Sum estimate, Rates and Fees estimate for the scope of work including: accuracy, value engineering items and presentation.

Team oral presentation and Proposal Review including: Team participation, eye contact, public speaking ability and information presented. Judging will place particular emphasis on the information presented.

Construction Schedule and Manpower estimates including: scheduled activities, logic of schedule, coordination between trades and presentation of schedule.

Bid Form including: Correct bid form, organization chart logic, proposal letter and contract clarifications and exclusions.

Written Execution Plan – A Narrative on how you intend to build the project

Overall proposal binder appearance and completeness

#### Mechanical Rules

The NCMCA/Performance Mechanical, Inc. Joint Committee will be enforcing the following rules: If any team should be cited for breaking any of the rules, the Joint Committee reserves the right to deduct points or disqualify the said team. The Joint Committee also follows the Competition Rules as stated on the ASC website: [www.asc67.org](http://www.asc67.org).

1. Once the competition begins, the six students are not allowed the use of any outside information.
2. No person besides the stated six student participants shall be allowed beyond the threshold of the door of the designated work room at any time during the competition. The competition begins when the problem statement is handed out until the team's presentation is over.
3. Once a presentation has begun, no person shall be allowed to enter the presentation room.
4. The Joint Committee discourages the use of "canned" or fluff materials in both proposals and presentations.

The NCMCA/Performance Mechanical, Inc. Joint Committee expects the best of all our Student Team Competitors. Ethics, Creativity, and Professionalism are extremely important to our mechanical industry and the success of the nation's mechanical industry as a whole. We are looking for future industry leaders through this competition.

Sincerely,

The 2015 NCMCA/Performance Mechanical, Inc. Joint Committee