

36th Annual Student Career Days
March 22 – 25, 2012
Kansas State University

IRRIGATION DESIGN

****This description has been updated for the 2012 event****

Description: The student (maximum of one individual per school) will be required to answer a series of questions and/or problems pertaining to the irrigation design applications related to a sample residential and/or commercial project. The questions will be objective in nature, true/false or multiple choice. Some drawing will also be required.

The design portion of the event may include, but not limited to:

- questions on appropriate selection and positioning of irrigation equipment
- zoning the system based on plant types, exposure, water supply and equipment type
- pipe layout and sizing
- sprinkler head layout
- hydraulic calculations to determine a working pressure at a particular sprinkler head and/or available flow and pressure at the source
- selection of appropriate back flow protection devices for connection to a potable water supply.
- scheduling
- precipitation rates

Time: 2 hours to complete the design event on Friday evening. There is no preliminary exam.

Limits: There are no limits on the number of schools competing in the exam.

JUDGING CRITERIA

Points: 100 possible points for the individual score; the individual score is doubled toward the team score for a total of 200 possible points.

Points will be awarded based on predetermined answers.

Time will only be used as a tiebreaker.

Students are required to bring the following materials to the event:

- engineer and architect scale
- calculator
- two sharpened pencils with erasers.

Sponsor is required to supply the following materials for the event:

- 75 - 100 copies of the problems and/ or applications pertaining to a design
- equipment and technical data manuals
- scratch paper
- stopwatches
- sufficient number of judges and event monitors
- any other items deemed necessary for this event