

WESTEC Manufacturing Challenge

Judging Criteria

School Team: _____ Award: _____

<u>Evaluation Criteria</u>	<u>Possible Points</u>	<u>Team Points</u>	<u>Comments</u>
Design	10	_____	_____
Creativity	10	_____	_____
Product/Project	10	_____	_____
Manufacturability	15	_____	_____
Project Management	15	_____	_____
Presentation	15	_____	_____
Documentation	15	_____	_____
Health and Safety	5	_____	_____
Registration	5	_____	_____
Total Points Possible	100	_____	_____
Judges' Discretion	5	_____	_____
Grand Total Points Possible	105	_____	_____

Definitions of the Judging Criteria:

Judging will be based on the evaluation of the quality of the project abstract, booth display, documentation, student team presentation and interview with the judges.

Design: What were the technical/functional requirements the design had to accomplish? (10 points)

Creativity: Demonstration of uniqueness of the project. Is it a new use of an existing process? Does it represent ingenuity in the use of an application or process? More points will be given for originality and uniqueness of product design or manufacturing applications. (10 points)

Product/Project: Does it satisfy the needs of the customer? Is it useful? Is it reliable? Does it perform its intended function? (10 points)

Manufacturability: Ease of manufacturing, assembly, and service. More points will be given for completed and functioning projects/manufacturing systems. (15 points)

Project Management: Is there evidence of teamwork? Is there a division of labor? Is there a definition of roles and responsibilities? Were deadlines met? Was performance monitored? What were the roles of the team members and their contributions? Was a project budget defined and monitored? (15 points)

Presentation: The judges will have read the student teams' project abstract. They will then inspect the project, listen to a ten-minute presentation by the student team members and conclude with a ten-minute interview of the student team members. During the presentation, the student team members are expected to demonstrate their knowledge and understanding of the manufacturing and project management processes involved with their project. (15 points)

Documentation: Drawings showing details of the project's components. A bill of materials that indicates the materials used, parts that were student-designed and manufactured in-house, parts that were student-designed and subcontracted, and parts and hardware that were purchased. Documentation detailing testing, evaluation and application of the product/project. If appropriate, a business plan for project. (15 points)

Health and Safety: What environmental and safety issues were considered in the design of the product/manufacturing system? How did safety considerations affect the processes involved? (5 points)

Registration: Five copies of the **correctly** completed registration form and five copies of the abstract plus the \$50 registration fee must have been mailed by February 22, 2010, or the school will lose 5 points. (5 points)

Judges Discretion: Up to an additional five points may be awarded at the discretion of the judges. (5 points)

WESTEC Manufacturing Challenge 2010 Schedule of Events

Monday, February 22, 2010

Monday, February 22, 2010 is the last day to email the completed registration form and the project abstract and also the last day to mail the \$50.00 registration fee without losing project judging points.

Monday, March 22, 2010 1:00 – 4:00 p.m.

Manufacturing Challenge Contest Set-up. Student teams move in their equipment and set up their contest entries in the South Hall at the Los Angeles Convention Center (LACC).

Tuesday, March 23, 2010 7:00 a.m. – 8:00 a.m.

All contest entries must be moved in by 8:00 a.m. Students may work on the final setup of their displays until the judging starts at 9:00 a.m.

Public Viewing 9:00 a.m. – 3:00 p.m.

All contest entries must be ready for public viewing by 9:00 a.m. Student team members should be present throughout the day to explain the project to interested WESTEC attendees.

Contest Judging 9:00 a.m. – 2:00 p.m.

The student team members should be at their display and ready for judging at the time posted for their school's entry to be judged. There will be a 1 hour lunch break at 12 noon.

Job Fair 9:00 a.m. – 3:00 p.m. (locations to be posted)

Please remember to bring multiple copies of your resumes to provide to the companies that will be conducting hiring interviews for full time employment and internships. The judges will post a schedule of the time that each school will be judged. This will allow the team members to interview with the companies without running the risk of missing their school team's judging time.

Manufacturing Challenge Evaluation Meeting 2:30 p.m. – 3:00 p.m. (Awards Display Booth)

Student team members, faculty advisors and other interested individuals are encouraged to offer their suggestions for the improvement of future WESTEC Manufacturing Challenge Contests. An evaluation form will be passed out prior to the meeting.

Manufacturing Challenge Awards Ceremony 4:00 p.m. - 5:00 p.m. (location to be posted)

Students, instructors, industry representatives and other interested parties are invited to attend this public awards ceremony. First, second and third place awards will be presented to the winners in each of the two categories, as well as the overall Grand Prize and the William B. Johnson "Leadership in Manufacturing Award."

Contest Break-down and Move-out 5:00 p.m. – 8:00 p.m.

Students dismantle their displays and depart the Convention Center.