

THE URBAN ASSEMBLY
SCHOOL OF DESIGN AND CONSTRUCTION
PRESENTS THE

IRON DESIGNER

CHALLENGE

2010 Competition Team Packet
The Emergency Shelter Challenge

THE CHALLENGE

In light of the most recent catastrophes occurring in Haiti and Chile, your challenge is to build a life-size emergency shelter, using basic materials provided to you, in 3 hours and in front of a live audience.

THE TEAM

Each team will be comprised of 4 representatives of your firm paired with 2 students from the School of Design And Construction (SDC). These students should be an integral part of the design and construction process. All meetings with students must occur at your place of business and/or at the SDC. Coordinate your student's participation directly with them. The 4 members of your team do not have to belong to the firm.

On the day of the event you will be required to list the 6 team members who will be building during the challenge on your team's Information Board. Refer to attached Information Board requirements. The names on the board must be the same individuals building. The same team members who begin building must remain throughout the build. No substitutions for any reason will be allowed.

THE SCHEDULE

From now until June 17th you are encouraged to develop your design through what ever means necessary. You may enlist the assistance of colleagues outside your 6-person team. There is no limit to team members involved in the planning and design prior to the event. You should fully engage your student team members during the design process.

On the day of the event all 6 team members must arrive at the SDC by 4:30 to set up your space and receive a group orientation. Teams will have a total of 3 hours to build beginning at 5:00pm.

All work on the shelters must stop at 8:00pm.

If you finish your shelter before 8:00pm, you must clean and organize your space and contact a competition/event volunteer. The team captain and one other member of your team must remain with the shelter until 8:00pm.

THE MATERIAL

All building materials allowed in the construction will be supplied to you on the day of the event. Refer to the attached list of materials for reference. Though not anticipated, a change in materials and/or quantities may be made at the discretion of the SDC up until a week prior to the event. Any change in materials will be announced via email to your primary contact.

There will be a "secret material" unveiled at 6:30pm on the day of the event by the host. The teams must integrate this material into the shelter, though to what degree is to your discretion. This material will be a common building material used in the design and construction industry.

THE TOOLS

Teams must provide your own set of tools to complete the construction of your design. Power tools are not allowed. Any power tools or other tools that are considered in the sole opinion of the event/competition coordinators to be either unsafe or to provide unfair advantage will not be allowed to be used. We recommend that each team come with the following tools:

Scissors, Box Cutters, Exacto Blades, Stapler/Staple Gun, Mallet, Level,
Measuring Tape, Step Stool, Cutting Board, and First Aid Kit

Cutting stations will be provided for the dowels and PVC pipe. Only one team member at a time is allowed at a cutting station for a maximum of 10 minute increments. Materials should be marked with cut lines before entering the cutting stations.

THE SPECIFICATIONS

The shelter must be constructed within an 8'x8' square area and must meet the following requirements.

- Provide at least one opening that allows entry/exit of an average sized adult
- Interior headroom of at least 7 feet high.
- Minimum interior area of 25sf.
- No part of the shelter can be higher than 10' tall.

You must select the intended climate of the shelter and the aftermath of what type of event the shelter was designed for. These choices should be evident in the design and must be described on your Information Board.

THE LOCATION

The event will take place on June 17th at the School of Design and Construction, West 50th St. Campus, 525 W. 50th St. between 9th and 10th Avenues. The competition will take place on the 5th floor outdoor roof deck, weather permitting. In the case of inclement weather the competition will take place inside the gymnasium.

Teams must perform their construction within their assigned build area. Refer to the attached Site Plan. Teams must keep their build areas neat and safe. Materials will be laid out for each team at their assigned build location prior to the start of the competition. The “Secret Material” will be located in multiple centralized piles.

THE SPECTACLE

The Iron Designer Challenge is a live event in front of an audience of hundreds of industry professionals. Like its inspiration, the television show “The Iron Chef”, it is meant to be entertainment. You are greatly encouraged to treat this event as a performance. Each team member should be prepared to engage the audience, judges and hosts. Though they may be interruptions to the build, questions and interviews must be accommodated. Showmanship, professionalism and most importantly sportsmanship behavior is expected from all members of the team. Behavior considered in the sole opinion of the event/competition coordinators to be either offensive, disruptive or unprofessional will not be tolerated and may be cause for disqualification.

Teams are encouraged to show team spirit by wearing firm colors/ t-shirts/ uniforms/ costumes etc. You may decorate your build area as you see fit while observing the build area limitations. You may not apply any signage to walls. Any decorations and/or clothing that are considered in the sole opinion of the event/competition coordinators to be either unsafe, offensive or problematic to other teams will not be allowed to be used and may be cause for disqualification.

Each member of the team must wear a name tag at all times matching the name on the Information Board. The design of the name tag is at the discretion of the team. Please identify the Team Captain on his or her name tag. The Team Captain should be well spoken and must be prepared to give interviews during the competition.

The event will open to spectators at 6:00 PM. Spectators will be allowed to walk around the competition build area and observe the teams working. It is the responsibility of the teams to prevent: spectators from entering the build areas assigned to each team, damaging the structure or injuring themselves with tools or materials.

The Iron Designer Challenge may be recorded, edited and distributed at the discretion of the SDC. By being a member of the build team, you waive all rights to recordings and photos taken during the event. All information provided on the Information Board may be used at the discretion of the SDC.

In the event that a team member is injured during the competition, please have a team member alert a competition/ event volunteer to the situation. First Aid kits are provided at each cutting station.

THE JURY & AWARDS

The jury will be composed of impartial experts and personalities in education, government, design and construction. Visit the website for constant updates on jury members. Judging will begin at 6:00pm and end at 8:00pm. The jury will be rating each structure and team on the following criteria (in order of significance):

1. Overall aesthetic quality of the structure
2. Appropriateness of shelter for intended climate and event
3. Structural ingenuity
4. Use of the “Secret Material”
5. Teamwork and performance
6. Student participation
7. Overall spectacle

The following awards will be given out by the jury:

The Iron Designer
Structural Ingenuity
Best Use of the Secret Material

A **People’s Choice Award** will be voted on by the audience, so bring lots of friends and colleagues to the event!

THE QUESTIONS

For questions, email IronDesignerChallenge@uasdc.com

Do not directly contact any other person involved in the event/competition.

THE URBAN ASSEMBLY
SCHOOL OF DESIGN AND CONSTRUCTION
PRESENTS THE
**IRON
DESIGNER**
CHALLENGE

MATERIAL LIST

Material	Dimensions			Quantity Per Team	Remarks
	Dia	Length	Height/Width		
Brown Paper			48"	100 LF	
Bubble Cushion			12"	100 LF	3/16" thick
Cable Zip Ties	8"			50 Ties	
Cable Zip Ties	14"			50 Ties	
Cardboard		48"	48"	10 Sheets	
Cardboard Tubing	2"	38"		10 Tubes	
Duct Tape				1 Roll	
Fabric				10 Yards	10 Yards of the same fabric; Teams will get different fabric.
Foam Pipe Insulation	1"	72"		6 Tubes	
Funny Pipe or Flexible Conduit	1/2"			50 LF	Funny Pipe - Home Depot Item 53338
Gray Fiberglass Screen Fabric			36"	100 LF	
PVC Elbows	1 1/4"			10 Pieces	
PVC Inserts	1 1/4"			6 Pieces	
PVC Inserts	1 "			6 Pieces	
PVC large diameter insert	4"			2 Pieces	
PVC Piping	1"			70 LF	Provisions will be made to cut to length on site during the event.
PVC T Connections	1 1/4"			6 Pieces	
Rope	TBD			100 LF	
Rubber bands				50 Bands	
Safety Cones			18"	8 Cones	
Scaffold Bases				6 Bases	5" square 1" diameter bases
Wood Dowles	7/8"	48"		10 Dowles	Provisions will be made to cut to length on site during the event.