

Risk Assessment Safety Plan

Project information:

Human Power Vehicle		2/28/18
Name of Project		Date of submission
Team Member	Phone Number	e-mail
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Faculty mentor	Phone Number	e-mail
Shayne McConomy	850-410-6624	smcconomy@eng.famu.fsu.edu

I. Project description:

The purpose of this project is to create a vehicle that will be the foundation for future teams to compete in the ASME Human Powered Vehicle Challenge. The Human Powered Vehicle Challenge is a competition in which students design and assemble an eco-friendly, agile, and safe mode of transport to be used in Mega Cities. This semester, our team is completing the design of our three wheeled vehicle and using Solidworks Simulation to perform failure analysis on a virtual model, such as testing of the frame under heavy forces. ASME requires the roll cage to be able to withstand a force of 2670 Newtons. Additionally, our team is constructing a prototype and performing analysis on our physical model. We are continuously recruiting younger students to create interest in a legacy project in future years.

II. Describe the steps for your project:

1. Design it
2. Analyze it
3. Design again
4. Order parts
5. Build prototype
6. Test prototype
7. Make changes as needed

III. Given that many accidents result from an unexpected reaction or event, go back through the steps of the project and imagine what could go wrong to make what seems to be a safe and well-regulated process turn into one that could result in an accident. (See examples)

There might be a hazard in welding/cutting during the build step.
We also could crash during testing.

IV. Perform online research to identify any accidents that have occurred using your materials, equipment or process. State how you could avoid having this hazardous situation arise in your project.

Wear PPE. Use common sense while operating machines/vehicle. Flow correct operating procedure of machines. Think..... what would Larson do?

V. For each identified hazard or “what if” situation noted above, describe one or more measures that will be taken to mitigate the hazard. (See examples of engineering controls, administrative controls, special work practices and PPE).

Supervision from professionals.

VI. Rewrite the project steps to include all safety measures taken for each step or combination of steps. Be specific (don’t just state “be careful”).

1. Design it
2. Analyze it
3. Design again
4. Order parts
5. Build prototype (wear PPE/have professional supervision)
6. Test prototype (wear helmet and arm pads and nee pads and reflector shoes and floaties on arms and rape whistle and)
7. Make changes as needed

VII. Thinking about the accidents that have occurred or that you have identified as a risk, describe emergency response procedures to use.

Call 911
 Use first aid while waiting on 911
 Make sure faculty knows that there was an emergency

VIII. List emergency response contact information:

- Call 911 for injuries, fires or other emergency situations
- Call your department representative to report a facility concern

Name	Phone Number	Faculty or other COE emergency contact	Phone Number
Shayne McConomy	850-410-6624	FSU PD	850-644-1234

IX. Safety review signatures

- Faculty Review update (required for project changes and as specified by faculty mentor)
- Updated safety reviews should occur for the following reasons:
 1. Faculty requires second review by this date:
 2. Faculty requires discussion and possibly a new safety review BEFORE proceeding with step(s)
 3. An accident or unexpected event has occurred (these must be reported to the faculty, who will decide if a new safety review should be performed.
 4. Changes have been made to the project.

Team Member	Date	Faculty mentor	Date
	2/28/18		

Signature


Report all accidents and near misses to faculty mentor.