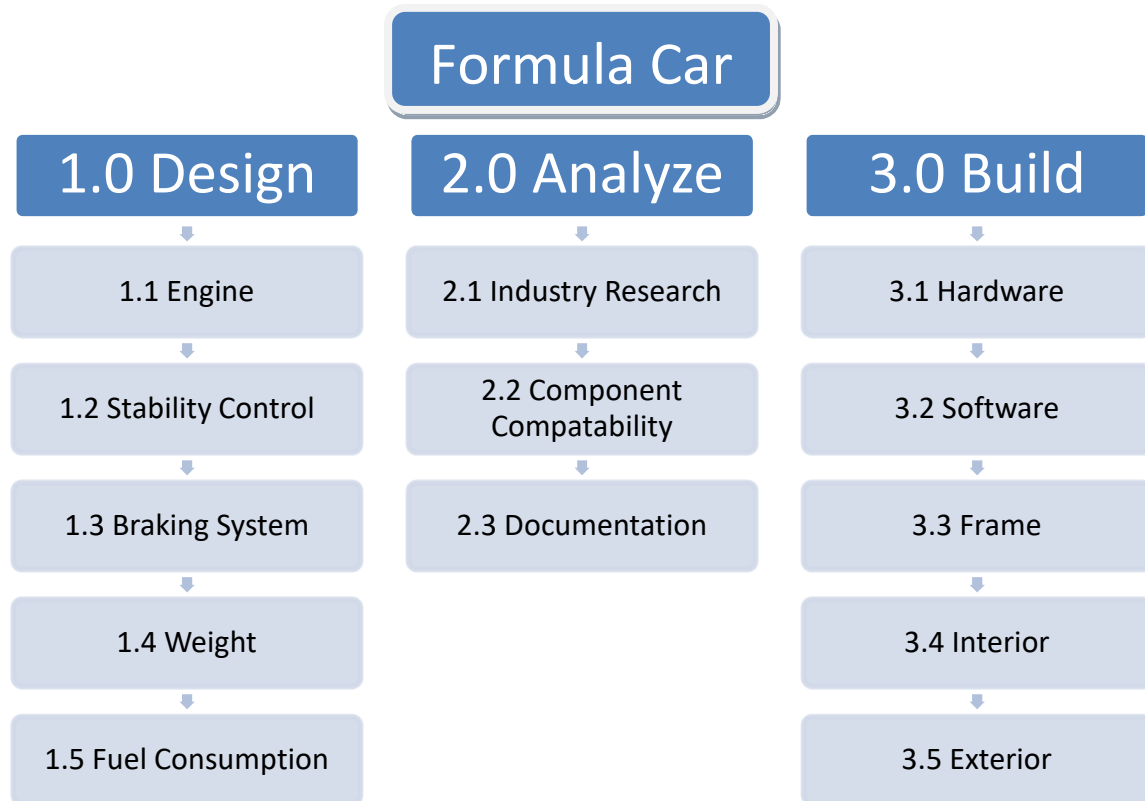


1.



## WBS Dictionary

Project: Engine

Task No. 1.1

Person Responsible: Internal Technician

**Task Work Description:** Using the industry research conducted by task number 2.1, use the best components to design a street legal Formula- type Engine. This will need to have approximately 400 horsepower which can go from 0 to 60 in four seconds. The maximum speed target is 150 mph.

**Task Product:** Top of the line engine design

**Acceptance Criteria:** Must meet all deliverables and leverage industries best of breed hardware/software

**Duration:** 2 weeks

**Cost:** \$5 Million

**Deliverables:** 400 horsepower  
0 to 60 mph in 4 seconds  
Maximum speed of 150 mph

**Due Date:** 2.24.2012

**Preceding Activity:** Task 2.1  
**Team member assigned:** Marketing and Research Dept.

**Succeeding Activity:** Task 2.2  
**Team member assigned:** Technician

**Resources Assigned:** Team of 4 senior technicians and 2 junior technicians

**Approved by:**    **Date:**

2. If my original budget of \$50M was cut to \$40M I would recommend:

- Reviewing the WBS to determine any elements that could be more efficient or are not critical to meeting the requirements. I would consider shortening the time and resources given to industry research.
- I would research if the organization's experts could design and build the car cheaper than an American contractor.
- I would consider minimizing the people involved on each team and implementing a rewards system that is not based on monetary value. Rewards such as: time off, a card of thanks, or a team lunch purchased by the project manager after the closing of a milestone.

3. If there was a deliverable left out of the scope statement I would:

- I would review the WBS and reconfigure my plan to ensure that the missing deliverable is included in the statement.
- I would then cross-check the rest of the statement to make cost and/or resource adjustments and ensure that there are no other problems with the plan so we would not get behind on time management or waste any resources.

4. If the pit crew needed to be funded by the project I would:

- Look into creating partnerships with corporate sponsors or investors in order to build outside revenue and avoid dipping into our previously allocated budget.
- I would also look to using interns for certain jobs which may have been previously higher paid in order to cut costs. As long as there was not a major drop off in efficient production, this would also foster long-lasting partnerships with academia.

5. If the sponsor told me that I had to make a major scope change without increasing my budget, I would:

- Sit down with the sponsor and take a look at the WBS to determine which task numbers needed to be changed and which could remain the same.
- I would reallocate funds where necessary and consider implementing the partnerships with corporate sponsors and academia.