Specifications-Project Name

# Delete all blue text before final submission.

# File name: Specifications-Project Name

# Location: Phase 2 Box Folder

# Description:

Once you have determined what your project will need to do and how someone will use it, you will then need to find ways to evaluate different design options. What you need to develop are a set of comprehensive, measurable criteria that can be used during the evaluation process. You should have criteria for each of the basic functions you have developed. Your criteria should also relate back to the user requirements, the user analysis, and the constraints. You will also need to have specific criteria for the user interface. These criteria should not have any specific values associated with them at this point; these are simply a list of the measurable attributes of the design.

**Categories of Evaluation Criteria (Voland 2004):**

**Physical:** space allocation or dimensional requirements, weight limits, material characteristics, energy or power requirements

**Functional/Operational:** acceptable vibration ranges, operating times, input/output requirements

**Environmental:** moisture limits, dust levels, intensity of light, temperature ranges, noise limits, potential effects upon people or other systems that share the same environment

**Economic:** limits on production costs, depreciation, operating costs, service or maintenance requirements, existence of competitive solutions in the marketplace

**Legal:** governmental safety requirements, environmental or pollution control codes, production standards

**Human Factors/Ergonomics:** strength, intelligence, and anatomical dimensions of the user

**Example Criteria:**

* Height of the user interface
* Access speed
* Memory capacity
* Tipping force
* Tensile strength

## Specifications

Once the criteria for evaluating possible solutions have been established, you can begin to develop the customer specifications for your project. Specifications are the values associated with the measureable evaluation criteria; that is, the values you are aiming to meet. For instance, one of your criteria might be the access time for a database query. Your specification would then be the actual time you want that query to take. What quantifiable and measurable specifications will be used to evaluate designs?

## Instructions:

1. List measurable attributes for each function in table
2. List Criteria to be measured in table
3. List Specifications for criteria
4. List source of specification
5. Write abstract for evaluation criteria document

# Abstract:

Write one sentence for each section:

1. Describe the purpose of the activity.
2. Describe what steps you took to perform the activity.
3. What were the results?
4. How will the results help the project?

# Table

|  |  |  |
| --- | --- | --- |
| Criteria | Specification | Source |
| Height of user interface | 3 feet |  |
| Access Speed | 10 μs |  |
| Memory Capacity | 20 MB |  |
| Tipping Force | 75 lbs |  |
| Tensile Strength | 400 MPa |  |