

Testing a Real World Object



Questions like:

How would you test a toilet?
How would you test a toaster?
How would you test a microwave?
How would you test a paperclip?
How would you test a pen?
How would you test a phone?
etc.

Step 1: Ask who will use it? And why?





Step 2: What are the use cases?

Microwave oven use cases:

- Heating

- Defrosting

- Cooking etc.

Indoor - Outdoor use.

Stationed - Mobile

Step 3: What are the bounds of use?

- Number of usages, weight limits
- Environmental factors - usage in extreme warm or cold temperatures or humid
- Elastic limit - force per unit required for permanent deformation
- Voltage required for electronic devices 110V - 220V

Etc etc etc

Step 4: What are the stress/failure conditions

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- What is acceptable failure conditions?
- What is minor and extreme failure?



Step 5: How would you perform the testing?

- How would you test a pen if requirement says that ink should last for 1000 pages?
- Or your microwave/toaster/toilet can withstand normal usage for 5 years?