

Name Josh Weisberg

### STUDY QUESTIONS FOR STEP 3

1. What is the function of the "Design Process"?

The "Design Process" is a systematic procedure used in industry to change ideas into useable products for consumers or other manufacturers

2. List in your own word the ten (10) steps involved in the design of a product or a structure:  
Find background information about the project to gain a complete description of the problem.

Sketch any thoughts about how to fix the problem

Discuss possibilities with peers and colleagues.

Put together and revise all possibilities into final draft sketch.

Make a design layout of solution to scale.

Assemble a drawing of all parts and assemblies with scale detail.

Put together a list of materials and specifications of the parts.

Make, inspect, and assemble parts to prototype or model.

Check prototype for accuracy, reliability, and safety.

Double check detail and drawings and prepare manuals and brochures with technical illustrations.

3. What is the "designer's" role in the "Design Process"?

prepare a set of plans and specifications that guide contractors, masons, carpenters, electricians, plumbers, roofers, painters and many other skilled workers in the completion of their work

4. What is the "engineer's" role in the "Design Process"?

Make sure the solution will be accurate, reliable, and safe and approve the design

5. What is the "technician's" role in the "Design Process"?

assemble the prototypes

6. What is the "drafter's or detailer's" role in the "Design Process"?

Drafters work with Detailers making standardized drawings of basic parts and may become Detailers after eighteen to 24 months;

7. What is the "illustrator's" role in the "Design Process"?

Works from detail drawings of individual parts and assembly drawings of how parts fit together to prepare three dimensional drawings for owner's manuals, repair instructions, assembly instruction sheets, brochures, charts, graphs, etc.;

8. What is the "architect's" role in the "Design Process"?

Works with other architects, engineers and contractors in the design and construction of structures

9. A beginning drafter or cad operator is called Novice and can be promoted to apprentice and designer.

10. What is the purpose of a "Design Project Statement"?

provides basic information and parameters about the structure, the client, the site, the cost and the time of completion;

11. What is the purpose of a "Design Project Analysis"?

analyze the client's life style including daily activities, hobbies, interest, furnishings, possessions, preferences and desires;