120 Design Lessons - Day 2

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KR: https://www.youtube.com/watch?v=Iidt7SiSdmM&t=811s | 120 Design Leassons - Day 2

Stage 1: Preparing to Learn

Step 1. Success Mindset

Step 2. Why Learn this Subject?

Step 3. Orientation

Step 4. Prerequisites

Step 5. Learning objectives

Step 6. Performance criteria

Step 7. Vocabulary

Step 8. Information

- How do you find your way around the wiki? Use the taxonomy topic in the OSE wiki. https://wiki.opensourceecology.org/wiki/Wiki_Taxonomy
- What is the product development process? https://wiki.opensourceecology.org/wiki/Open_Source_Product_Development
- What is the development template we can use for all products? Development Spreadsheet Template - Open Source Ecology
- What are the values and tenets of OSE? OSE Specifications - Open Source Ecology
- Where are all the design guides? OSE Machine Design Guide - Open Source Ecology

Step 9. Plan

Stage 2: Performing the Learning

Step 10. Models

- Model of product development: Seed Home v2 - Open Source Ecology

Step 11. Think critically

Step 12. Transfer / Generalize

Step 13. Solve Problems or Complete Tasks

Stage 3: Assessing and Building New Knowledge

Step 14. Self-coach

Step 15. Document Gems & Deliberately Practice Your Knowledge

- The product development template documents the process and the use of the process for the specific product being developed.
- Collaboration requires a group growth-mindset; being open about what you know, tried, failed and succeeded at, and willing to support and extend the group's progress -- understanding that incremental contribution from many people will make a stronger end result
- {{subst:dev+|my project}} adds the product development template into a page on the wiki; this can be used when making major revisions to a project by adding the version number and copying the parts from the previous version
- A second template is for the enterprise version {{subst:enterprise|my enterprise}}
- Design modularity limits expense of rework
- BoM and CAD, for example, need to iterate to ensure that low cost, buildability, asthetics, etc. are combined for overall impact, enhanced by collaboration and transparency on global scale

Step 16. Create a Project