Activity 4-1: Product Design Analysis

Why?
Understanding the problem is the first step in design. In software product design, this first step amounts to understanding stakeholder needs, which is the goal of product design analysis.

Learning Objectives
- Understand how product design analysis fits into the software product design process
- Know how to elicit needs from stakeholders
- Know how to document needs

Success Criteria
- Be able to diagram the software product design process
- Be able to list and explain accepted needs elicitation techniques
- Be able to create stakeholder-goals and needs lists
- Be able to review analysis documentation

Resources
ISED Chapter 4

Vocabulary
User-centered design, stakeholder focus, needs elicitation, needs analysis, requirements validation, interview, focus group, elicitation workshop, prototype, problem domain glossary, organization chart, stakeholders-goals list, need statement, needs list, correct, contingent, uniform, terminologically consistent, complete

Plan
1. Review ISED Chapter 4 individually.
2. Answer the Key Questions individually, and then evaluate the answers as a team.
3. Do the Exercise as a team, and check your answer with the instructor.
4. Do the Problems and Assessment as a team.
5. Turn in the Problems and Assessment as a team deliverable.

Key Questions
1. Use your book to find the meaning of any terms in the Vocabulary section you do not know.
2. What roles can stakeholders play in a user-driven design process?
3. Name two elicitation heuristics.
4. Name five elicitation techniques.
5. Name three things checked in needs documentation.

**Exercises**
Do *ISED* Chapter 4 exercises 4, 5, and 6.

**Problems (Deliverable)**
Do *ISED* Chapter 4 exercises 7 through 10.

**Assessment (Deliverable)**
1. Do you feel that in-class activities are a good way to learn this material?
2. Are the in-class activities sufficiently challenging?