Phase Zero Lesson Plan

Learning Objectives

• Concepts. Students can explain the meaning of process and tool.

• Students understand the structure and ideas of the IPS well enough to launch their project.

• For phase zero, students develop their own:
  • Reasons for learning phase zero
  • Strategy for learning phase zero
  • Strategy for finding consultants

Resources

1. Learning about phase zero
2. IPS—a tool for phase zero
3. Examples--IPS examples from past projects
4. Phase zero worksheet

Facilitation Plan

Preparation

pre-session homework

1. (TM 20) Read the phase zero documentation (bin resources 1-3 together in a PDF).
2. (TM 20) Think ahead to your team project and the execution of phase zero. In your logbook, answer the following four questions.
   a. Why are you personally interested in learning how to apply the phase zero process? List as many ideas as possible.
   b. Imagine that your team completes phase zero with a high level of quality (strong performance). What will be your three most important results? Why?
   c. What are your best ideas for combining (a) learning of phase zero with (b) getting phase zero completed with high standards for team performance?
   d. What are your best ideas for finding consultants to help your team with technical topics such as ergonomics, human factors engineering, controls, and water quality issues?
   e. List 2 cogent questions about phase zero.
Session (50 min)

1. (TM5) Setup: Design Process Roadmap ==> Concept of process ==> concept of a tool ==> Best practices (read student quotes)

2. (TM15) Group Processing--Teams of 4 process questions about Phase Zero
   a. Why is it to your advantage to learn how to scope a project (i.e. how to do phase zero)? List your ideas & mark your two best idea.
   b. In your own words, what are the key results that your project team will produce in phase zero? Prioritize your list.
   c. What are your best ideas for building strong collaboration & clear expectations within your project team? With your client? With your advisors?
   d. Write two cogent questions about phase zero.


4. (TM 5) Peer Reporting. Reporting by student mentors--What are the three best ideas you have heard today?


Homework/Followup

1. Announce how we (profs) can be available.
Design Team Processing (TM15)

1. Why is it to your advantage to learn how to scope a project (i.e. how to do phase zero)? List your ideas & mark your two best idea.

2. In your own words, what are the key results that your project team will produce in phase zero? Prioritize your list.

3. What are your best ideas for building strong collaboration & clear expectations within your project team? With your client? With your advisors?

4. Write two cogent questions about phase zero.