Exercise:
Continuous Integration
Part 1

The participants should be divided into project teams that have between 4 and 8 people (smaller teams are preferable). Each project team should have two halves, call them left half and right half. Each half will have between 2 and 4 people. There should be as many project teams as necessary to include all participants.

Say you have 15 participants in the room (typical size). Since it's an odd number, some grouping(s) will be off-by-one (which is acceptable). Here are the sizes of the various groupings:

Room = 15 people
Project Team = 5 people (3 project teams in room)
Left Half: 3 people
Right Half = 2 people

Here's another way to split 15 people:

Project Team: 7 or 8 people (2 project teams)
Left Half: 4 people
Right Half: 3 or 4 people

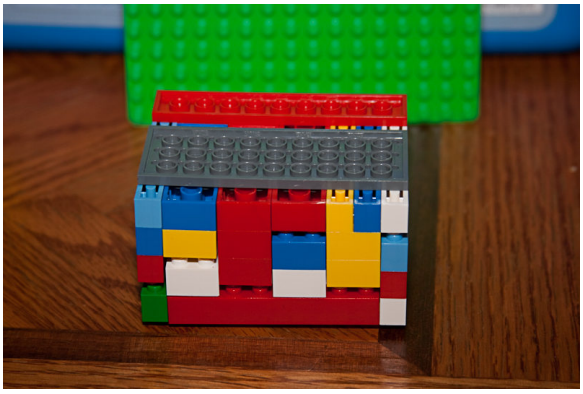
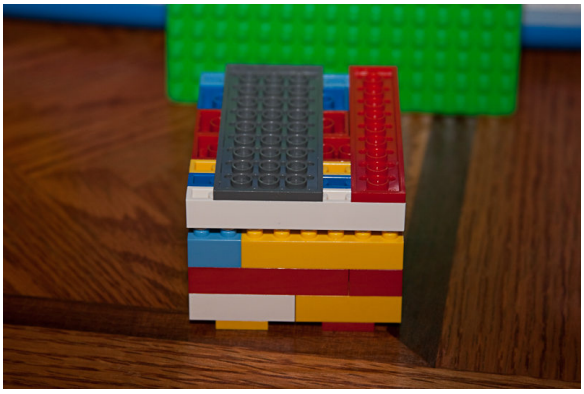
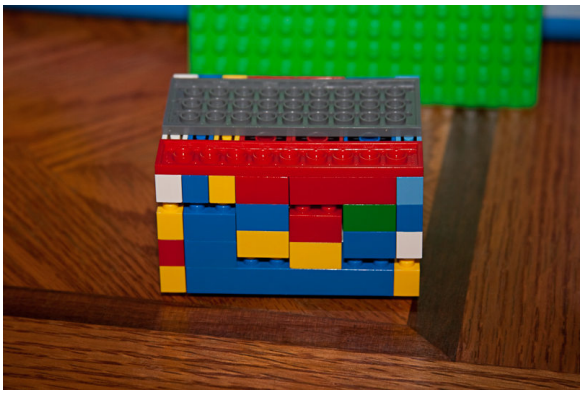
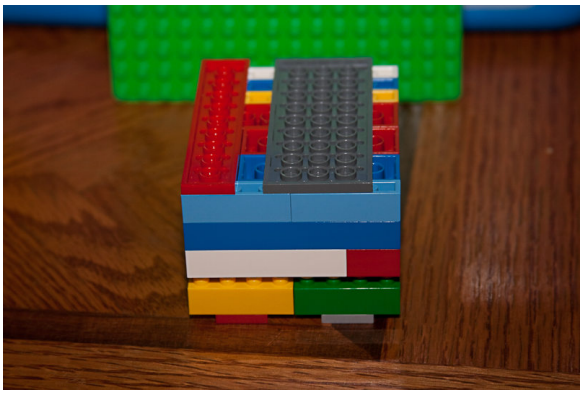
With a group of 10 people:

Project Team: 5 people (2 project teams)
Left Half: 3 people
Right Half: 2 people

This exercise will be done in two rounds.

Both rounds lead to the same goal: at the end of the round, two subsystems fit together cleanly to create the final "system."

The pictures below reflect the finished "system."

Setup

Each half of each project team (left and right) receives their specs, and is given 3 minutes to look over their LEGO and to discuss what they're going to build.

Left Half builds the object specified in the set of specs named left-finished-xxx.pdf.

Right Half builds the object specified in the set of specs named right-finished-xxx.pdf.

- Neither pair gets to see the other pair's specs
- Neither pair gets to see the other pair's work in progress
- Both pairs first get to see the other pair's "subsystem" when both pairs are done
- Record the time when both halves are built, and before integration starts
- When both pairs are done, they will try to fit their subsystems together
- They will make modifications until they are successful
- Record the time when both halves have been integrated.