

EXHIBIT F

A CLOSER LOOK AT CONNECTING SCHOOL AND WORK

Part of work-based learning is connecting school and the world of work. Ask yourself if there are ways to **LEARN, APPLY, or EXPLORE Mathematics, English, Social Studies, Science, and Art** as part of your job. The connections are there; you might just need to take a closer look.

Sample Job: Electrician

Question: What are at least three ways you apply mathematics at work?

Answer: We have to use a lot of math. We have to measure angles and spaces to cut pieces for wiring a wall so that everything fits the first time. We also use formulas and fractions to do the job estimates.

Question: What are at least three ways you apply communication skills?

Answer: Before we can get started on a job, we have to listen to a client and then repeat their concerns back to them. If we don't listen carefully, we're going to get the job wrong. We also have to talk to other contractors. We can't just come into a job and do our work if there are other contractors on site. We have to plan, negotiate, and compromise with the carpenters and dry wallers so the day goes smoothly. Justification of costs on estimates and technical language on contracts on estimates and technical language on contracts require specialized writing and reading skills.

Question: What social issues relate to your job or industry?

Answer: I never really thought about this before, but there are a lot of social issues tied up with power. For example, dams are a big issue in the world. What are the political, economic, and environmental issues tied up with power generation and alternative power technologies? Some people think we should change to a "cleaner" energy like solar power. But what would the costs and benefits be of making that kind of change?

Question: What are at least three ways you apply scientific principles?

Answer: Everything we do involves science—from the filament in a light bulb to how electricity is conducted. Whether I am reading the code book or thinking about safety on the site, science is always behind what I'm doing.

Question: How do you apply a creative or artistic process at work?

Answer: I never really thought of my job as being artistic, but now that I stop and think about it, there are creative aspects of the work. When looking at blueprints we have to decide on the placement of outlets and keep in mind how it affects a person's convenience in a work or living space. This often involves creative problem solving. In our shop we also document the "before and after" of a job with photographs and keep them on file. I've learned a few things about taking good pictures. And then there's the union newsletter. I'm not a regular contributor, but I have submitted short articles in the past.

