

ENGINEER 4A03 ASSIGNMENT #2: FALL 2022

Below are two (2) fact scenarios that raise ethical issues:

FACT SCENARIO A AND FACT SCENARIO B.

You are to do the following regarding each of these two (2) scenarios:

1. Identify the ethical issues which arise in each fact scenario.
2. Identify which Rules of Professional Misconduct and which Codes of Ethics from Sections 72 and 77, respectively, of the ***Professional Engineers Act, R.R.O. 1990, REGULATION 941***, apply to each fact scenario and why, based on the ethical issues you have identified exist in each fact scenario?
3. Suggest at least two decision making options and solutions that should have been considered in each fact scenario as a means or method of dealing with and resolving the ethical issues you have identified exist in each fact scenario.

FACT SCENARIO A

Lois is a civil engineer, living in the Town of Smallville. She has been elected to sit on town council as a councilor, a part-time job that she does mainly as a form of public service.

Lois has been hired by a local developer, Lex Luthor Inc., to draw up plans for the street layout and water and sewage facilities for a new commercial development in the town: Kryptonite Business Park. Lex Luthor Inc.'s submission to town council includes Lois' drawings and specifications.

At a later town council meeting, Lex Luthor Inc.'s development proposal was voted upon, and Lois voted to approve the development. During the discussion, Lois does not publicly state her relationship with the developer. Her signature and seal are on some of the plans submitted to council.

FACT SCENARIO B

You are a mechanical engineer and a manager for the Acme Assembly Company, which designs, fabricates, and assembles machinery. You have received a contract to manufacture twenty gearboxes that have been designed by Delta Designs, a company that is occasionally a competitor. However, Delta Designs is extremely busy and does not have the capacity for this work at the present time.

One of your designers' notices that the sizes of shafts and gears on the drawings appear to be rather small for the torque and power ratings of the gearboxes, and rough calculations seem to confirm that assessment. You call the chief engineer at Delta Designs, and she states that she is too busy to double-check the drawings. She has full confidence in her designers and says you should get on with the job. She also points out that you are engaged in this contract as a fabricator, not as a designer, and, consequently, that you should not be reviewing her work.