

EECE404 Senior Design II
Spring 2023
Dr. Charles Kim

Ethics II Assignment 1 (100 points) - Resolution of Ethical Dilemma
(This is individual assignment)

A. Instruction:

Write a report of resolving ethical dilemma of the scenario described below following the *6 steps of Resolving Ethical Dilemma* discussed in the Ethics II lecture. Remember the subject is **you – you're the engineer in the scenario**.

Note that:

- (a) All 6 steps have to be performed
- (b) All 4 components in the Step 2 have to be listed
- (c) At least 4 options have to be generated in the Step 3
- (d) The two tables have to be produced in the Step 4, and
- (e) The final action/option to take has to be clearly indicated.
- (f) If any two or more submitted works are (almost) identical, all such works will be considered as cheated ones, and are subject to 0 point first and then to possible additional disciplinary action from the university.**

B. Score Distribution and Rubric:

Step #	Description	Point Distribution (by the quality of the description)
0	From the scenario, the ethical dilemma is briefly described	10 5 0
2	At least 4 facts are drawn and described	10 5 0
2	(a) At least 5 stakeholders are identified (b) Interests of the stakeholders are described (c) Impact to the stakeholders are described or depicted (d) At least 3 relevant ethical codes are identified	40 20 10 0
3	At least 4 options are generated for taking actions	15 10 5 0
4	(a) The table for how each option addresses the ethical codes is generated (b) The table for the consequences on the stakeholders by each possible action is generated (with at least 4 consequence items)	20 10 0
5	The selected option/action is briefly described.	5 0

C. Submission: Submit a typed report in the following file name: **YourLastName_EthicsII.xxx** .

D. Submission due: 8:00pm Tuesday February 28, 2023

E. Late submission is subject to 10% deduction in maximum earnable points each day of delay

Scenario¹

High Concept Manufacturing (HCM) has an engineering plant in a small town that employs 10% of the community. It provides approximately \$10 million of salaries to its workers and pays \$2 million in taxes.

The HCM plant releases, as a consequence of its manufacturing procedures, bad smelling fumes, annoying residential neighbors and hurting the local tourism trade. The fumes have been linked (although not conclusively) to a rise in asthma in the area. The town is considering an ultimatum to HCM: “Clean up your plant, or we will fine you \$1 million.” HCM had previously made it known that the business will close down and go somewhere else if it is fined by the town.

There will be a town meeting where all concerned parties have agreed to attend and discuss the matters given. You are an engineer living in the town who has been recently offered an excellent job opportunity at HCM.

You have signed a contract with HCM, and you are officially one of the new employees. However, this is as of yet not public knowledge. HCM asks you to try to convince the town to drop the case and that the town is better off with HCM’s presence.

What are **you** going to do?

¹ This scenario is adapted from *Engineering Design Process* (by Y. Haik and T. M. Shamin), 2nd edition, Cengage Learning.