



Professional Ethics & Human Values

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RESPONSIBLE ENGINEERS IN SOCIAL EXPERIMENTATION

The engineers have so many responsibilities for serving society

Conscientiousness: A primary obligation to protect the safety of human subjects and respect their right of consent.

Relevant information: A constant awareness of the experimental nature of any project, imaginative forecasting of its possible side effects and a reasonable effort to monitor them.

Moral autonomy: Autonomous, personal involvement in all steps of the project.

Accountability: Accepting accountability for the results of the project.



CONSCIENTIOUSNESS (SENSE OF AWARENESS)

Conscientious means showing that one cares about the doing things well and thoroughly

It means commitment to live according to certain values

Engineers have to be sensitive to range of moral values and responsibilities

Willingness to develop the skill and expend the effort needed to reach the best balance possible among various considerations.

Conscientiousness means consciousness because mere intent is not sufficient.

Respect foremost the safety and health of the affected, while they seek to enrich their knowledge, rush for the profit, follow the rules, or care for only the beneficiary



RELEVANT INFORMATION:



Conscientiousness is impossible without relevant factual information.

Engineers have to show the commitment to obtain and properly gauge all the information related to meeting one's moral obligations.

Moral concern involves a commitment to obtain and assess all available pertinent information.



COMPREHENSIVE PERSPECTIVE

The engineer should grasp the **context of his work** and ensure that the work involved results in only moral ends.

Not to Accept Design :-A product has a built-in obsolete or redundant component to boost sales with a false claim



MORAL AUTONOMY

Viewing engineering as social experimentation, and anticipating unknown consequences should promote an attitude of questioning about the adequacy of the existing economic and safety standards.



ACCOUNTABILITY

Means - The capacity to understand and act on moral reasons

Means being responsible, liable, answerable or obligated.

Morally responsible peoples are expected to accept morally responsibility for their actions

According to standley milgram, people are not willing to accept personal accountability when placed under authority