

Core Concept: Workplace Behavior/Operations

Engineering Literacy Dimension: Engineering Practices

Practice: Professionalism

Overview: *Workplace Behavior/Operations* are the actions and activities of managing the internal functions of the business or organization in which one operates, following the appropriate rules of conduct and ethical guidelines, so that the entity runs as efficiently and honorably as possible. This core concept includes knowledge related to (a) *ethical guidelines for public health, safety, and welfare*, (b) *responsible conduct of research*, (c) *maintaining a professional workplace culture*, (d) *ethical business operations*, (e) *creating and honoring agreements/contracts*, (f) *professional liability*, and (g) *public policy and regulations*. Workplace Behavior/Operations is important to Professionalism as engineering professionals are required to observe the ethical standards for performing their services including developing and delivering solutions to the public, communicating and cooperating with other professionals, and working for organizations and communities.

Performance Goal for High School Learners

I can successfully establish the appropriate work culture amongst team members in order to maintain honesty and integrity within an engineering project.

	 Basic	 Proficient	 Advanced
PUBLIC HEALTH, SAFETY, & WELFARE	I can explain the importance of engineering ethics for public health, safety, and welfare.	I can recognize what ethical guidelines may be needed for holding paramount public health, safety, and welfare in engineering practice.	I can evaluate and criticize a certain engineering decision or design in terms of holding paramount public health, safety, and welfare.
RESPONSIBLE CONDUCT OF RESEARCH	I can explain the importance of responsible research conduct.	I can discuss what ethical guidelines may be needed for honesty and integrity in conducting engineering-related research.	I can evaluate and criticize a certain engineering research procedure or result in terms of responsible research conduct.
WORKPLACE CULTURE	I can explain the importance of engineering ethics for workplace culture.	I can discuss what ethical guidelines may be needed for honesty and integrity in workplace culture.	I can evaluate and criticize a certain engineering work environment in terms of appropriate/ethical workplace culture.
ETHICAL BUSINESS OPERATIONS	I can explain the importance of engineering ethics for business operations.	I can discuss what ethical guidelines may be needed for honesty and integrity in business operations.	I can evaluate and criticize a certain plan or decision for engineering business management in terms of ethical business operations.