

# Civil Engineering Licensure Exam – Mock Exam (Day 27: Ethics and Professional Practice)

February 24, 2025

## Instructions

- Time Limit: 60 Minutes
- Coverage: Ethics and Professional Practice
- Total Questions: 10 (Multiple Choice & Problem-Solving)
- Provide complete explanations for problem-solving questions.

## Section A: Multiple Choice Questions (MCQs)

Choose the best answer.

1. Professional ethics in engineering primarily focuses on:
  - (a) Maximizing profit
  - (b) Protecting public safety and welfare
  - (c) Expanding business markets
  - (d) Following company policies
2. A conflict of interest occurs when an engineer:
  - (a) Works on multiple projects at once
  - (b) Has a personal or financial interest that compromises professional judgment

- (c) Conducts research for a government project
  - (d) Provides services for free
3. According to most engineering codes of ethics, an engineer must:
- (a) Prioritize employer profits over public safety
  - (b) Follow professional and ethical responsibilities above all else
  - (c) Work without regard to regulatory laws
  - (d) Disclose all personal financial records
4. If an engineer becomes aware of a serious safety violation in a project, they should:
- (a) Ignore it to avoid conflict
  - (b) Report it to the appropriate authorities
  - (c) Cover it up to protect the company's reputation
  - (d) Continue the project as planned
5. The concept of "whistleblowing" in engineering ethics refers to:
- (a) Reporting unethical practices or safety violations
  - (b) Complaining about workplace issues
  - (c) Ignoring company policies
  - (d) Encouraging faster project completion

## Section B: Problem-Solving

1. A civil engineer working on a public infrastructure project is offered a personal gift from a contractor bidding on the project. What ethical concerns does this situation present, and what actions should the engineer take?
2. A professional engineer discovers a design flaw in a bridge under construction that could pose a safety risk. The employer instructs the engineer to remain silent to avoid project delays. What ethical responsibilities does the engineer have, and what actions should they take?
3. A consulting engineer is offered a lucrative contract from a developer but is already working for a competing developer. What are the ethical considerations regarding conflict of interest in this situation?
4. An engineer is asked to sign and approve project plans prepared by another engineer without reviewing the calculations. What ethical issues arise from this request, and what should the engineer do?
5. A construction company is rushing a project to meet a deadline and decides to cut corners by using substandard materials, which may compromise safety. As an engineer involved in the project, what ethical and professional steps should you take?