**Choose Three - These three will be on your pre and post test and on your quiz for this discipline.**

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| **Multiple Choice - General** | | |
| **Subject** | **Questions** | **Answers** |
| Pre-Test | Select the group that best describes the building blocks for engineering.   1. Science, Models, Technology 2. Science, Math, Technology 3. Sociology, Math, Technology 4. Science, Models, Theories 5. Sociology, Models, and Technology | B |
| Pre Test | Engineers can improve an existing technological product, system, or method. This kind of work is through:   1. **Innovation** 2. Invention 3. Ergonomics 4. Artificial Intelligence | A. |
| Pre-Test | “Ethics” is best described as   1. Philosophical concept dealing with moral conduct. 2. A set of standards establishing right and wrong actions. 3. Rules that describe your duty to society and to your fellow professionals. 4. Guidelines that make decisions for you.    1. I and II only    2. II and III only    3. I, II, and III only    4. I, II, III, and IV | C |
| General | Which of the following is not proper guest speaker etiquette:   1. Actively Listen 2. Show Interest 3. Be free of distractions 4. Applaud after each slide 5. Thank the guest speaker | D |

**Choose three based on the lecture and the specific ethics project you selected.**

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| **Multiple Choice or True/False--Lesson 1 (Intro) and Lesson 2 (Ethics)** | | |
| **Subject** | **Questions** | **Answers** |
| Lesson 1 | You will be peer evaluating your teammates each week based on their engagement and contribution to the project. What other assignment is peer evaluated?   1. Bell Ringer 2. Lab Report 3. Project Presentation 4. Reflection | C |
| Lesson 1 | Engineers can develop a new product, system, or process that has never existed before. This kind of work is considered an:   1. Innovation 2. Invention 3. Intervention 4. Institution | B |
| Lesson 1 | Engineers can improve an existing technological product, system, or method. This kind of work is considered an:   1. Innovation 2. Invention 3. Intervention 4. Institution | A |
| Lesson 2 | Which of the following are traits of professionalism?   1. Being on time. 2. Dishonesty. 3. Being able to communicate. 4. Being committed to high standards. 5. Giving up when things are uncertain. 6. All of the above 7. A, C, and D only 8. A, D, and E only | G |
| Lesson 2 | The first and foremost obligation of registered professional engineers is to:   1. The government 2. Their employer 3. The public welfare 4. The engineering profession 5. All of the above | C |
| Lesson 2 | A person’s behavior can be considered ethical when one:   1. Does what is best for oneself 2. Acts in the best interest of society 3. Does what is most profitable 4. Acts in the best interest of the employer 5. All of the above | B |
| Lesson 2 | Put the four steps in ethical decision making in the proper order.   1. Act on your decision. 2. Identify the issue and the stakeholder. 3. Analyze alternative courses of action from different perspectives. 4. Correlate perspectives. 5. 1, 2, 3, 4 6. 4, 3, 2, 1 7. 2, 3, 4, 1 8. 2, 4, 3, 1 | C |

**Choose six.**

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| **Fill in the Blank or Matching--Lesson 1 (Intro) and Lesson 2 (Ethics)** | | |
| Subject | Questions | Answers |
| Lesson 1 | Engineering is the discipline, art, skill and profession of acquiring and applying science, mathematics, economic, social, and practical knowledge, in order to \_\_\_ and \_\_\_ structures, machines, devices, systems, materials, and processes that safely realize improvements to the lives of people. | Design and build |
| Lesson 1 | \_\_\_\_ is the accreditation organization for engineering educational degrees. | ABET |
| Lesson 1 (this counts as 4 of your 6) | The following is a partial listing of various engineering disciplines. Match these descriptions with the engineering majors:   1. Mechanical Engineer 2. Electrical Engineer 3. Chemical Engineer 4. Computer Scientist   ( ) May design a GPS for your vehicle  ( ) May find a cure for disease  ( ) May write a computer program  ( ) May create a robot to discover water on a planet | 2,3,4,1 |
| Lesson 1 (this counts as 5 of your 6) | The following are the typical steps to become a Professional Engineer in the State of Louisiana. Order the five stages, by indicating in ascending order, which comes first:  ( ) Apply for licensure  ( ) Gain acceptable work experience  ( ) Earn a degree from an ABET-accredited engineering program  ( ) Pass the PE exam in the appropriate discipline  ( ) Pass the FE exam | 5  3  1  4  2 |
| Lesson 2  (this counts as 4 of your 6) | Put the four steps in ethical decision making in the proper order.  ( ) Act on your decision.  ( ) Identify the issue and the stakeholder.  ( ) Analyze alternative courses of action from different perspectives.  ( ) Correlate perspectives. | 2, 3, 4, 1 |
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Choose one.

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| Free Response Question--Presenter | | |
| Subject | Questions | Answers |
| Lesson 1 | Explain the difference in an innovation and an invention. | Invent – Develop a new product, system, or process that has never existed before Innovate – Improve an existing technological product, system, or method |
| Lesson 2 | You are given a project at work, and it is due August 25th at 9:00am. You turn in your project at 9:30am without letting your boss know it will be late. Is this considered good or bad professionalism. Explain why or why not. | Poor professionalism. Characteristics violated  Communication because you did not let your boss know you would be late. Being on time because you were late. |
| Lesson 2 | How do you know if your decision is ethical? | It is consistent with your professional moral principles.  It is consistent with generally accepted codes of conduct. |
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