



Industrial Engineering Outcomes

- A. An ability to solve engineering problems by applying knowledge of mathematics and basic science
- B. An ability to use modern computing tools and techniques to effectively solve industrial engineering problems
- C. An ability to solve basic engineering problems in the areas of mechanics, materials, thermodynamics and electrical circuits
- D. An ability to solve complex engineering problems that combine aspects of mechanics, materials, thermodynamics and electrical circuits
- E. An ability to analyze economic and financial data, leading to appropriate economic decisions
- F. An ability to analyze data and draw appropriate conclusions about engineering significance and probability
- G. An ability to understand and design engineering experiments
- H. An understanding of the statistical background for quality assurance
- I. An ability to design, develop, implement and improve integrated systems that involve people, materials and energy
- J. An understanding of common manufacturing processes and their applications
- K. An understanding of the relationship between product design characteristics and manufacturing efficiency and costs
- L. An in-depth knowledge in at least one area of interest related to industrial engineering
- M. An ability to take an assigned engineering problem, analyze it and formulate and implement a solution
- N. An ability to effectively contribute to a team solution of a complex engineering problem
- O. An ability to effectively carry out engineering experiments and interpret associated data



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- P. An ability to analyze and discuss the ethical and moral ramifications of engineering decisions and take appropriate actions
- Q. An understanding of the effects of industrial engineering activities on society and the environment
- R. An understanding of the necessity for continued professional development and education for the effective professional practice of industrial engineering
- S. An ability to effectively communicate the reasoning behind specific engineering decisions
- T. An ability to present engineering information clearly and succinctly in written form
- U. An ability to make clear oral presentations
- V. An ability to present and discuss diverse problems and ideas in group situations
- W. Evidence of a well rounded education including exposure to fine arts, literature, history, philosophy, social science and foreign culture
- X. An understanding of the role of industrial engineers as professionals and the role of professionals in society