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knowledge of science mathematics logic economics and appropriate experience or tacit knowledge to find suitable solutions to a particular problem this chapter consists of the academic core of engineering with a skim of the mathematics science and discipline specific ideas this chapter while seeming purely academic is meant to give engineers a taste of the hard core portion of engineering what is an engineer discuss what an engineer is in class or with friends note there is not just one answer as with anything in the real world definitions can be complex with multiple subtleties that being said there is one specific word that is a must to get at the core of an engineer the field has been defined by the engineers council for professional development in the united states as the creative application of scientific principles to design or develop structures machines apparatus or manufacturing processes or works utilizing them singly or in combination or to construct or operate the same with full cognizance knowledge engineering is a field of artificial intelligence ai that creates rules to apply to data to imitate the thought process of a human expert it looks at the structure of a task or a 1 industry knowledge a hiring professional needs to see if you are capable of performing as an engineer in the field of the company for which you are applying for an engineering role you usually need to have a strong foundation in subjects such as science engineering technology and mathematics here is a list of the top engineering skills you need to perform your duties effectively as an engineer manufacturing processes engineers need to understand manufacturing processes manufacturing processes include forging molding machining joining imaging forming coating assembling

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