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General Chemical Engineering Concepts What is a Chemical

Engineer? a) An Engineer who manufactures chemicals, b) A

Chemist who works in a factory, or c) A glorified Plumber?

This is actually a trick question as the correct answer is d)

"None of the above." (Note however that chemical

engineering students bored with the relentless "pipe-flow

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example" during fluid dynamics class may begin to ...

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Chemical engineering emerged upon the so called "unit operations" development of chemical transformations and physical changes (crystallizations, separations, evaporations, polymerizations, filtrations, isomerization, etc.).

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What is Chemical Engineering? Chemical engineering is a branch of engineering in which the principles of chemistry, applied mathematics, biochemistry, microbiology, economics, and applied physics to efficiently use and transform chemicals, matter, and energy. These are just some of the

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basics of chemical engineering.

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Chemical engineering is one of so many different branched of engineering which applies physical sciences (such as chemistry and physics), life sciences (biochemistry and microbiology), economics and applied mathematics to transform, produce, transport and use chemicals, materials, and energy in a proper way.

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Chemical engineers translate processes developed in the lab into practical applications for the commercial production of products and then work to maintain and improve those processes. They rely on the main foundations of engineering: math, physics, and chemistry (though biology is playing an increasing role).

~~Chemical Engineering – American Chemical Society~~  
Chemical engineering is all about changing raw materials into useful products such as clothes, food and drink, and energy.



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Chemical engineers focus on processes and products – they develop and design processes to create products; either focussing on improving existing processes or creating new ones.

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The following outline is provided as an overview of and topical guide to chemical engineering: . Chemical engineering □ deals with the application of physical science (e.g., chemistry and physics), and life sciences (e.g., biology, microbiology and biochemistry) with mathematics and economics, to the process of converting raw materials or chemicals into more useful or valuable forms.

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## 2.2 Conversion of Units 17

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