EO 204 Process and Equipment Presentation

“If you can’t describe what you are doing as a process, you don’t know what you are doing.”

W. Edwards Deming, 1900-1993

Your assignment is to create a presentation concerning the “process” of distillation (fractionation). Your presentation should demonstrate the two distinct types of processes used in petrochemical production, which are, Batch distillation and Continuous distillation. In your presentation you should describe and explain the functions of the main components of the system. One example would be: Distillation columns…..types, packing or trays, what reflux and reboiler roles are. Within your description you should also discriminate between products, co-products and by-products and if they are the end result of a “separation process” or a “Transformation Process”. In other words: what is the difference between the two? Also included should be a discussion concerning what Conversion and yield are and how they are determined plus the role of specific catalysts or enzymes play in the process.

You should use Ethanol production as the theme for this project. The project itself is worth 150 points and you may work together on it. We will dedicated three full class periods to your presentation however it will probably take time outside of class to complete.

An attached grading rubric is attached.