



Course Objectives

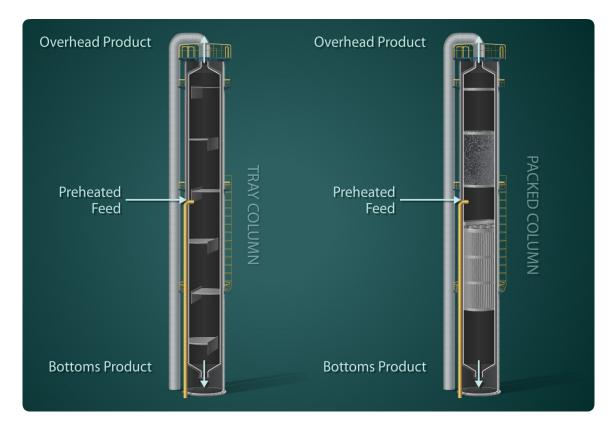
- 1. Describe the basic operation of a distillation column.
- 2. Compare the different types of internals structures used for liquid and vapor distribution inside distillation columns, including: bubble cap trays, valve trays, sieve trays, packing grids, and packed columns.
- 3. Identify the distillation column symbols used on a P&ID.
- 4. Define the following terms related to a distillation column: overhead product, bottoms product, boil-up, reflux, feed rate, external reflux, internal reflux, bubble caps, packed columns, packing grids, and fractionation.
- 5. Describe how refluxing and re-boiling help separation.



Key Terms (Define the following)

downcomers	
packed columns	
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simple distillation	
tray columns	
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Questions

1.	Both structured and random packing cannot be used in the same column. ☐ True ☐ False
2.	When the rate of vaporization is equal to the rate of condensation in a system, occurs. flooding equilibrium reflux reboiling
3.	The three basic tray designs commonly used in distillation columns are, and
4.	Define "boilup".