



Course Objectives

- 1. Describe how feed rate change can affect column profile.
- 2. Describe the following operating problems:
 - i. Overloading mechanical causes.
 - ii. Flooding How to identify flooding in a distillation column.
 - iii. Flooding How to avoid and respond to flooding.
 - iv. Temperature problems early detection of temperature profile changes.
 - v. Controlled variable is not controlling process.
 - vi. Burping
- 3. Describe the impact of reflux on product specification.
- 4. Describe the potential problems associated with reboiler operation.

Abc

Key Terms (Define the following)

burping		
flooding		
overloading		
J		



١.		$_{ ext{-}}$ occurs when the vapor flow up through the column is to too			
	low to prevent liquid ☐ Overloading ☐ Flooding ☐ Burping ☐ Weeping	from flowing through the holes in a tray.			
2.	Weeping can be indicated by a significant pressure drop in the column and reduced product separation. ☐ True ☐ False				
3.	☐ Overloading☐ Dumping☐ Weeping☐ Flooding	_ typically results from heat loss in a column.			