



Course Title: Flow of Solids/Pneumatic Conveying Combo Course

Course ID:	Course Type:
CH757	Instructor-led (classroom) Course
http://www.aiche.org/ch757	

Course Schedule

Flow of Solids in Bins, Hoppers, Chutes, and Feeders

Day One

8:00 – 8:30	Registration
8:30 – 10:00	Bulk solids handling fundamentals
10:00 – 10:15	Morning Break
10:15 – Noon	Flow patterns in bins and hoppers; bulk solids flow testing
Noon – 1:00	Lunch Break
1:00 – 3:00	Flow properties and hopper design/troubleshooting
3:00 – 3:15	Afternoon Break
3:15 – 5:00	Bulk solid feeders – screws, belts, rotary valves

Day Two

8:30 – 10:00	Fine powder handling phenomena
10:00 – 10:15	Morning Break
10:15 – Noon	Review of flow properties test report; silo design example
Noon – 1:00	Lunch Break
1:00 – 3:00	Common segregation mechanisms for powders and solids
3:00 – 3:15	Afternoon Break
3:15 – 5:00	Flow aid devices; transfer chute design

Pneumatic Conveying of Bulk Solids (CH033)

Day Three

8:00 – 8:30	Registration
8:30 – 10:00	Introduction, modes of conveying; types of systems
10:00 – 10:15	Morning Break
10:15 – Noon	Fundamentals of gas/solids flow; pressure loss calculations
Noon – 1:00	Lunch Break
1:00 – 3:00	Component selection and system design
3:00 – 3:15	Afternoon Break
3:15 – 5:00	Dense phase conveying; system troubleshooting