

Course Title: AIChE Chemical Engineering for Non-Chemical Engineers - Virtual

Course ID:	Course Type:
CH710VTL	Instructor-led Virtual Course
https://www.aiche.org/academy/courses/ch710vtl/chemical-engineering-non-chemical-engineers-virtual	

Course Schedule

Day One

9:45-10:00	Log into WebEx Training Center
10:00-10:30	Course Overview/Introductions
10:30-12:00	Introduction to ChE/Health and Safety
12:00-12:15	Exercise #1: HAZOP
12:15-12:45	Lunch Break
12:45-1:45	Units of Measurement, Stoichiometry, Balances, Unit Operations and the Ideal Gas Law
1:45-2:00	Exercise #2: Using the Ideal Gas Law
2:00-2:15	Break
2:15-3:00	Chemical Engineering in Polymers and Plastics
3:00-4:00	Flow Sheets and Diagrams, Materials of Construction, Economics

Day Two

9:45-10:00	Log into WebEx Training Center
10:00-12:00	Fluid Mechanics
12:00-12:25	Exercise #3: Pump Curves
12:25-1:00	Lunch Break
1:00-1:45	Fluid Mixing
1:45-2:30	Heat Transfer (Part 1)
2:30-2:45	Break
2:45-3:30	Heat Transfer (Part 2)
3:30-4:00	Exercises #4&5: Heat Transfer

Day Three

9:45-10:00	Log into WebEx Training Center
10:00-11:30	Distillation and Stage-wise Contacting
11:30-12:00	Exercise #6: Distillation

12:00-12:30	Lunch Break
12:30-1:30	Adsorption, Stripping, Extraction and Leaching
1:15-1:30	Exercise #7: Extraction
1:30-2:30	Specialty Separations
2:30-2:45	Break
2:45-3:45	Evaporation and Crystallization
3:45-4:00	Wrap-up

Day Four

9:45-10:00	Log into WebEx Training Center
10:00-11:30	Kinetics, Thermodynamics and Reaction Engineering
11:30-12:00	Exercise #8: Inerting/Residence Time Distributions
12:00-12:30	Lunch Break
12:30-2:15	Solids Processing/Particle Technology Unit Operations
2:15-2:30	Exercise #9: Solids Processing
2:30-2:45	Break
2:45-3:45	Process Control and Measurement
3:45-4:00	Exercise #10: Process Control