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

<table>
<thead>
<tr>
<th>Course ID:</th>
<th>Course Type:</th>
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<tr>
<td>CH710VTL</td>
<td>Instructor-led Virtual Course</td>
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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