

Course Title: SACHE® Certificate Program: Practical Process Safety 1

Course ID:	Course Type:
ELA985	eLearning Course
http://www.aiche.org/ela985	

Course Outline

Unit 1: A Process Safety and Risk Overview

- Describe the three essential process safety foundations (these foundations will be discussed in more detail in Unit 2)
- Explain how these foundations include the Center for Chemical Process Safety Risk Based Process Safety elements (you have learned about the CCPS RBPS in other SACHE courses)
- Explain how process safety risk is evaluated (this section is a review of what you have learned in other SACHE courses, as well)
- Describe how risks are managed in the equipment life cycle
- Introduce a Barrier Model

Unit 2:

Describe how the equipment life cycle is affected by each of the three foundations:

1. The first discussion will cover the Process Safety Culture and Leadership foundation, including cultural and leadership characteristics;
2. The second discussion will cover the Process Safety Systems foundation, including Risk Based Process Safety (R-B-P-S) elements and intent of the system; and

The final discussion in this unit will cover the Operational Discipline (O-D) foundation, including personal and organizational OD characteristics.

Unit 3:

- Describe how to build your competence;
- Describe different roles and responsibilities;

- Describe how to build your technical process safety knowledge; and
- Describe why an effective process safety program must have commitment from everyone.