



Course Title: AIChE's Decision and Risk Analysis for Projects

Course ID:	Course Type:
ELA126	eLearning Course
http://www.aiche.org/ela126	

Course Outline

- Module 1 – Decision Analysis
 - Introduction
 - What is a decision?
 - What is decision analysis?
 - Basic Approach in Decision Making
 - Mutually exclusive projects
 - Portfolio Selection
 - Build capacity to produce a needed product or contract with a third party
 - Research and Development
 - Licensing and Royalties
 - Mergers / Asset Purchases
 - Conclusions

- Module 2 – Risk Analysis
 - Overview of concept of uncertainty
 - Sources of Uncertainty
 - Defining the Base Case
 - Key Project Parameters
 - Levels of Risk Assessment
 - Sensitivity Analysis
 - Scenario Analysis
 - Probabilistic Risk Assessment
 - Probabilistic Risk Summary
 - Summary

- Module 3 - Additional Problem Solving
 - Review of concepts from Module 1 and 2

- Problem 1 – Portfolio selection
- Problem 2 - Expansion of existing plant or New Facility
- Course wrap-up