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

Course ID: ELA126
Course Type: 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