



Lighthouse Technologies, Inc.

Course Description

The objectives of the course are to review structured methods for evaluation of systems architectures and to enable participants to perform architecture reviews of existing or proposed systems. Covers key architecture attributes, risks and constraints, and the trade off analyses required in determining an optimal architecture.

Curriculum

- System Overview
 - Objectives for System
 - Describe the System in Broad Terms
 - Major Design Alternatives
 - Selection Rational
- Subsystems and Organization
 - Major Clusters of Functionality
 - User Interface, Storage, Printing etc.
 - Multiple developer support
- Change Strategy
 - Changing Requirements
 - Compiler / Language
 - Library Availability
 - Hardware dependence
- Reuse and Make / Build
 - Make / build decisions
 - Reuse intentions for the system
- Functional Structure
 - Focus on specific elements
 - Design decision implications
- Code Structure
- Concurrency Structure
- Physical Structure
- Overview of Architecture Tradeoff Analysis Method (ATAM)
- Process for architecture reviews
- Small Case Study