This is a 2 day, practical hands-on seminar to cover the critical path of risk assessment and the steps involved in the early introduction of testing into the development process to help mitigate the risk. Students will learn and standardize on the terminology, processes, and challenges of incorporating risk management testing into real world applications. This workshop will allow developers to create software that will enhance maintainability and reduce the costs associated with modifications and enhancements. Attendees will gain a comprehensive working knowledge of testing and what it takes to design and conduct an effective test of the software, regardless of technology.

Course Objectives:
- Learn how to assess risk and incorporate test strategies for software rollouts.
- Identify the appropriate metrics to measure progress, performance and quality.
- Learn techniques to ensure that an information system protects and secures your data.

Audience: Programmers, system testers and managers looking to improve quality through risk management within the software development organization.

Prerequisites: Previous testing and development of software.

Number of Days: 2 days

1 Introduction to Testing & QA
Objectives / Observations
Impediments, Opportunities, and
     Managing
Responsibilities during Testing
Testing Definitions
Starting Testing Early vs. Late Start
     Testing
Quality Assurance, Quality Control and
     IS
Quality Tools/Steps/Suggestions
Opportunities to Improve the Testing
     Process
Comparing / Contrasting Development
     Life Cycles
     (Waterfall/Agile/TDD)

2 Risk Analysis
Calculating Risk
Understanding the Types of Risk
Understanding How Risk Affects Our
     Projects
Ascertaining the Value of a Test
Assessing the Level of Risk

Assigning a Relative Cost to Testing
The Principles of Installing a Risk
     Mitigation Process

3 Risk Identification
Identifying/Classifying Functional
     Specifications Defects
Identifying/Classifying Design Defects
Identifying/Classifying Coding Defects
Identifying/Classifying Testing Defects
Defining/Enforcing the Coding/Testing
     Standards

**4 Identifying Areas of Risk during the
     Analysis Process**
Functional Specifications and Design
     Documents
Preparing and Validating the
     Specifications
Specification Problems/ Defect
     Classification
Detailing the Scripts and Cases
Implementing the Scripts into the Code
Using some of the Common Tools to
     Assist with Testing