LEARNSOFT
LEARN FROM EXPERTS

QUALITY ASSURANCE COURSE CURRICULAM

Quality Assurance Class (QA)

COURSE OUTLINE

Computer Industry Background - Client Server Architecture - 3 tier Architecture – Database - .NET – Java – ERP – SAP – HR – FI – CO – PeopleSoft - Oracle Financials - Mainframe and evolution of computer industry will covered in detail so a person who doesn't have any IT background can understand the Terms and Acronyms of IT industry – SDLC - Waterfall methodology and Business Requirement Document topics will be discussed.

Manual Testing - In-depth coverage of Manual testing - QA Role - Test Plan - Test Cases - Defects – Priorities – Snapshot - Trouble Report - Requirements Traceability Matrix topics are covered in detail with hands-on Lab exercise.

HP Mercury Quality Center / Test Director - As a QA Analyst you will be required to use this tool to understand the Center of Excellence Model. Topics like Site Administration - Requirements Module - Test Plan Module - Test Lab Module - Defects Module is covered in detail with hands-on lab exercise.

DETAILED OUTLINE

Introduction and Overview - The software industry today - the state and quality of the testing industry - Software quality challenges and expectations - Structured vs. traditional software development and enhancement and Software Quality Assurance (SQA) - The software development life cycle: steps, phases and results - The tools, techniques and methods of QA Testing - Productivity for QA: the impact of application

Software Development Life Cycle: the Product View - The software project infrastructure - Systems development life cycle overview: its relationship to the project infrastructure and key SQA points - Life cycle phases and quality factors - Systems initiation and planning - Analysis and requirements definition - Software design Specs review - Testing and integration of system(s) - Production, use, evaluation and enhancement - The concept and application of baselines - SQL events, functions and deliverables

Software Quality Assurance - Software development and enhancement standards and the SQA function - Additional SQA events and functions - Testing, verification and validation - Walkthroughs and inspections - Software audits - Management reviews - Case histories and exercises

Testing, Validating and Evaluating - SQA testing, validation and evaluation strategies: module, unit, system, integration and acceptance - SQA metrics: measurements for and of effectiveness - Software quality evaluation techniques - Defect tracking: what to track where, analysis and improvement methods - Application exercise

ADVANCE LEVEL (Lead)

Special Topics - Software reporting metrics

Review and Evaluation - Developing, and/or updating, individual and organizational action plans - Provide Timeline and EST's - Key points to remember and future information sources

Automation QTP Scripts and Definitions - Learning Automation Play/Record - Scripting for residual uses.