Module One
Concepts and Terminology
• Data Integration Terms and Concepts
  o Processes and Projects
  o Architectures and Technologies – Integration Hub
  o Architectures and Technologies – Integration Hub
  o Architectures and Technologies – Integration Services
  o The Data Integration Lifecycle
• Testing Terms and Concepts
  o Processes and Testing
  o Quality Assurance vs. Quality Control
  o The Role of Testing in Quality Management
  o Terms and Definitions
  o Traditional Software Testing vs. Data Integration Testing
• Data Integration Quality Terms and Concepts
  o Source Data Quality
  o Target Data Quality

Module Two
Data Integration and Quality Models
• A Data Integration Framework
  o Four Dimensions of Data Integration
  o Product and Service Information Quality Model (PSIQ)
  o Database Quality Factors Model
  o Data Quality Hierarchy Model

Module Three
Testing Practices and Techniques
• Testing Practices
  o Best Practices and Common Mistakes
  o Structured Testing
  o Test Cases
  o Test Plans
  o Types of Tests
  o Walkthrough
  o Black Box and White Box Testing
  o Profiling
  o Exercise and Observation
  o Stress Testing

Module Four
Testing through the Life Cycle
• Requirements Testing
  o Source Data Requirements
  o Target Data Requirements
  o Consolidation and Migration Requirements
  o Start-Up and Historical Data Requirements
  o Detail and Aggregation Requirements
  o Data Quality Requirements – What to Test
  o Data Quality Requirements – How to Test
  o Data Capture Requirements
  o Service Level Requirements
• Functional Design Testing
Module Five
Test Planning and Execution

- Test Planning
  - Testing Goals and Purpose
  - Testing Metrics and Measures
  - Testing Roles and Responsibilities
  - Test Planning Activities
  - Test Planning Template

- Test Cases
  - Kinds of Test Cases
  - Test Case Design
  - Test Case Template

- Test Execution
  - Preparing to Test
  - Running the Tests
  - Using the Results

- Test Automation
  - Computer Assisted Testing
  - Automation and Planning
  - Automation and Test Tracking
  - Pros and Cons

Module Six
Summary and Conclusion

- Summary of Key Points
  - A Quick Review

- References and Resources
  - For More Information

Appendices
Appendix A
  - Bibliography and References

Appendix B
  - Case Study and Exercises