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## **IBM DataStage Essentials Enterprise Edition Outline 4 day course (32 hrs)**

1. Introduction
2. Deployment
3. Administering DataStage
4. DataStage Designer
5. Creating Parallel Jobs
6. Accessing Sequential Data
7. Platform Architecture
8. Combining Data
9. Sorting and Aggregating Data
10. Transforming Data
11. Repository Functions
12. Working with Relational Data
13. Metadata in the Parallel Framework
14. Job Control



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## **IBM DataStage Advanced Enterprise Edition Outline 4 day course (32 hrs)**

1. Introduction to the Enterprise Edition Architecture
  - Parallel processing architecture
  - Partition parallelism
  - Pipeline parallelism
  - Enterprise Edition development environment
  - Enterprise Edition framework
  - Enterprise Edition job execution model
2. Compilation and Execution
  - Code generation
  - Viewing and understanding the generated OSH
  - Stage to operator mappings
  - EE runtime architecture
  - Viewing and understanding the Score
3. Enterprise Edition Data Types
  - Datasets
  - Schemas
  - Datatype mappings and conversions
  - Processing external data
  - Null handling
  - Runtime Column Propagation (RCP)
4. Partitioning Data
  - Understand how Partitioning works in the Framework
  - Viewing partitioners in the Score

- Selecting partitioning algorithms
- Generate sequences of numbers (surrogate keys) in a partitioned, parallel environment

## 5. Collecting and Sorting Data

- Collecting data
- Collector algorithms
- Sorting data in parallel framework
- Inserted sorts
- Optimizing Fork-Join jobs
- Using Sort stages to determine the last row

## 6. Buffering in Enterprise Edition

- Buffering in EE
- Buffer tuning
- Avoiding buffer contentions

## 7. Extending Enterprise Edition

- Create BuildOp stages
- Create new External Function Routines
- Introduce CustomOp stages

## 8. Best Practices and Job Design Guidelines

- Overall job design tips
- Stage usage tips

## 9. Database Usage

- Overall Database Guidelines
- DB2 Guidelines
- Oracle Guidelines
- Teradata Guidelines

## 10. Environment Variables

- Runtime environment
- Exporting environment variables

- Job monitoring variables
- Job debugging variables
- Job design variables
- Sequential file variables
- Database variables

## 11. Performance Tuning

- Performance tuning methodology
- Selectively Disabling Operator Combination
- Configuration file guidelines
- Impact of partitioning
- Impact of sorting
- Impact of Transformers
- Impact of buffering



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## IBM QualityStage Version 8 Essentials Training Outline 4 day course (32 hrs)

1. Data Quality Issues
  - Different or inconsistent standards in structure, format or values.
  - Missing data, default values
  - Spelling errors, data in wrong fields
  - Buried information
  - Data anomalies
2. QualityStage 8 Architecture
  - Data Quality architecture
  - Data Quality server and client components
  - Describe the methods of client / server communication
3. Developing with QualityStage
  - Define data files and field definitions.
  - Build DataStage jobs
  - Deploy and run jobs
  - Locate and review results
4. Investigation
  - Define Data Investigation
  - Build Investigate stages
  - Use character discrete, concatenate, and word investigations to analyze data fields.
  - Locate and review results.

## 5. Standardization

- Standardize stage
- Identification of Rule sets
- Apply the Standardize stage
- Interpret standardization results
- Investigate unhandled data and patterns

## 6. Match

- QualityStage Match Concepts
- Matching algorithm types
- Describe the importance of blocking
- Apply multiple match passes to increase efficiency / efficacy
- Interpret and improve match results

## 7. Survivorship

- Identification of Survival techniques
- Describe Implementation options
- Definition of Survival rules
- Build Survive job

## 8. Special Topics

- Data Quality Methodology
- Full Run
- Migration Tool Utility
- Business Glossary



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## **IBM QualityStage Version 8 Advanced Training Outline 4 day course (32 hrs)**

1. Course Scenario
2. QualityStage Essentials Course Review
3. Rule Set Structure
4. Custom Rule Set Creation
5. Initial Investigation of Data to be Standardized
6. Development of Classification Schema / Adding Entries to the Classification Table
7. Review of Patterns Generated / Refining the Classification Table
8. Introduction to Pattern Action / Language Commands
9. Development of Pattern Action Sets
10. Investigation of Standardize Results / Refining Pattern Action Sets
11. Generate Match Frequency
12. Introduction to Advanced Match Concepts
13. Application of Advanced Match Concepts
14. Course Review



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## **IBM Information Analyzer Version 8 Essentials Training Outline 2 day course (16 hrs)**

1. Overview of profiling and Information Analyzer
  - Define Data Profiling
  - Information Analyzer Profiling Methodology
2. Getting Started
  - Logon to IBM Information Analyzer
  - Find and Display Pillar Menus
  - Find and Display the Palettes
  - Click through Getting Started
  - Find and Review Preferences / Configuration Options
3. Resources / Metadata / Projects
  - Configuring Resources
  - Metadata Import
  - Creating Projects
4. Column Analysis
  - Steps needed to perform column analysis
  - Run column analysis
  - Review the results of column analysis
5. Primary Key Analysis
  - Steps needed to perform Primary Key Analysis

## 6. Foreign Key and Cross Domain Analysis

- Foreign Key Analysis
- Cross-Domain Analysis

## 7. Baseline Analysis

- Baseline Analysis
- Compare current analysis statistics with previous analysis statistics

## 8. Reporting and Publishing Results

- Produce a report summarizing your data analysis activities
- Publish analysis results to the Web

## 9. Extending Metadata

- Build classifications
- Create terms
- Attach terms to columns