

DATASTAGE

DATASTAGE TRAINING COURSE INTRODUCTION:

- Global Online Trainings offers online Datastage 8.5 training for developers to develop significant knowledge and talents essential to design and develop an effective and accessible Data Stage solution to a multifaceted enterprise level business efforts .The entire *Data Stage training* module is aimed to collect, report on, resolve issues acknowledged via key application performance indicators. The tutorial for the professional and active training is developed by incorporating all the latest industry
- Datastage Training Overview:
- Datastage 9.1 Training is an ETL tool for developing a data warehouse which is part of the IBM Information Platforms Solutions suite and IBM Info Sphere. DataStage is application on the server integrates data across multiple systems using high performance parallel frame work. DataStage manager provides the user interface to view the contents of data repository. Data sources, transformations and destination database is specified in DataStage Training. Global Online Trainings offers wide range of DataStage 9.1 Online training with enterprise stage designed training curriculum starting with introduction of data warehousing and enhance in advanced concepts data modelling, Datastage administrator, director and designer.
- The tutorial of the professional training is developed by incorporating all the latest industry updates; therefore it serves as the best platform for enhancing allied business insight of the participants.
- Join Global Online Trainings for detail about this online Data Stage 8.5 training module by best subject matter experts. Contact help desk for more details.

Datastage Training Objectives:

- Introduction about Data Stage
- Data Stage Administrator
- Creating project, Editing project and Deleting project
- Data stage director
- Batches Creation
- Designer
- Dynamic RDBMS
- Processing stages
- Debugging stage
- Job Parameters
- Transformer Stage
- Manager
- Importing Table Definition
- Containers
- Difference between Local Container and Shared Container

Prerequisites to learn Datastage Training:

- Knowledge in SQL and PL/SQL is required.
- Datastage server runs on UNIX
- Basic knowledge of shell script is required

DATA STAGE 9.1 TRAINING COURSE CONTENT:

DATA WAREHOUSE BASICS

- An introduction to Data Warehousing
- Purpose of Data Warehouse
- Data Warehouse Architecture
- Operational Data Store
- OLTP Vs Warehouse Applications
- Data Marts
- Data marts Vs Data Warehouses
- Data Warehouse Life cycle

DATA MODELING:

- Introduction to Data Modelling
- Entity Relationship model (E-R model)
- Data Modelling for Data Warehouse
- Normalization process
- Dimensions and fact tables
- Star Schema and Snowflake Schemas

ETL DESIGN PROCESS:

- Introduction to Extraction
- Transformation & Loading
- Types of ETL Tools
- Key tools in the market

DATA STAGE ADMINISTRATOR:

- Datastage Training project Administration
- Editing projects and Adding Projects
- Deleting projects Cleansing up project files
- Environmental Variables
- Environment management
- Auto purging
- Runtime Column Propagation(RCP)
- Add checkpoints for sequencer
- NLS configuration
- Generated OSH (Orchestra Engine)
- System formats like data
- timestamp
- Projects protect – Version details

DATA STAGE DIRECTOR:

- Introduction to Data stage Director
- Validating Data stage Jobs
- Executing Data stage jobs
- Job execution status
- Monitoring a job, Job log view
- Job scheduling
- Creating Batches
- Scheduling batches

DATA STAGE DESIGNER:

- Introduction to Datastage Training Designer
- Importance of Parallelism
- Pipeline Parallelism
- Partition Parallelism
- Partitioning and collecting(In depth coverage of partitioning and collective techniques)

- Symmetric Multi-Processing (SMP) and Massively Parallel Processing (MPP)
- Introduction to Configuration file
- Editing a Configuration file
- Partition techniques
- Data stage Repository Palette
- Passive and Active stages
- Job design overview
- Designer work area
- Annotations and Creating jobs and Importing flat file definitions
- Managing the Metadata environment
- Dataset management
- Deletion of Dataset
- Routine

WORKING WITH PARALLEL JOB STAGES:

- Database Stages, Oracle, ODBC, Dynamic RDBMS
- File Stages, Sequential file, Dataset
- File set, Lookup file set
- Processing Stages, Copy, Filter, Funnel
- Sort, Remove duplicate, Aggregator, Switch
- Pivot stage, Lookup, Join, Merge
- Difference between look up, join and merge
- Change capture, External Filter, Surrogate key generator
- Transformer, Real time scenarios using different Processing Stages –
Implementing different logics using Transformer
- Debug Stages, Head, Tail, Peek
- Column generator, Row generator
- Write Range Map Stage, Real Time Stages, XML input
- XML output, Local and Shared containers
- Routines creation, Extensive usage of Job parameters
- Parameter Sets, Environmental variables in jobs

- Introduction to predefined Environmental variables creating user defined Environmental variables
- Implementing the same in parallel jobs

ADVANCED STAGES IN PARALLEL JOBS:

- Explanation of Type1 and Type 2 processes
- Implementation of Type1 and Type2 logics using Change Capture stage and SCD Stage
- Range Look process
- Surrogate key generator stage
- FTP stage
- Job performance analysis
- Resource estimation
- Performance tuning

JOB SEQUENCERS:

- Arrange job activities in Sequencer
- Triggers in Sequencer
- Restablity
- Recoverability
- Notification activity
- Terminator activity
- Wait for file activity
- Start Loop activity
- Execute Command activity
- Nested Condition activity
- Exception handling activity
- End Loop activity
- Adding Checkpoints
- Jobs used in different real time scenarios
- Explanation of Sequence Job stages through different Jobs

IBM INFORMATION SERVER ADMINISTRATION GUIDE:

- IBM Web Sphere Data stage administration
- Opening the IBM Information Server Web console
- Setting up a project on the console
- Customizing the project dashboard
- Setting up security
- Creating users in the console
- Assigning security roles to users and groups
- Managing licenses
- Managing active sessions
- Managing logs
- Managing schedules
- Backing up and restoring IBM Information Server
- Additional Features
- Performance Tuning of Parallel Jobs
- Data stage Installation process and setup
- Project Explanation

- *Datastage Training Essentials and Advanced Concepts:*

Datastage Architecture

- DataStage Clients – Administrator, Designer, Director, Repository
- Types of Jobs
- Design Elements of Parallel Jobs
- Pipeline Parallelism
- Partition Parallelism
- Three-Node Partitioning
- Job Design versus Execution
- Architectural Setup Options
- Setting Up a New DataStage Training Environment
- Work on Projects and Jobs

- Passive Stages
- Import Table Definitions
- Active Stages
- Advanced Concepts When Building Jobs
- The Business Use-Case Scenario
- Assess a Previously Built Job
- Assess Another Job
- Create A Job From Scratch
- Modify An Existing Job
- Control the Jobs
- Testing
- Extracting and loading data
- Transforming and filtering data
- Performing lookups in Datastage
- Implementing ETL process in Datastage
- Datastage Training jobs real-life solutions
- Performance Analyser and Resource Estimator utilities
- Slowly Changing Dimensions
- DataStage Command Line
- DataStage job monitoring from Linux
- What is Data Stage?
- Data stage is an ETL tool it is an application on the server which process the data as they move through the application. Data Stage is an Ideal tool for data integrations project system migrations. It can execute on a single server or on multiple machines on network environment. DATA STAGE is organized in one or more projects. Data Stage engines is are of two types' server engine and parallel engine.
- The training starts with Data Warehouse fundamentals and introduction to Datastage and slowly delve into Datastage Training concepts and going through some of the scenarios but not limited to such as setting up and performing extractions from various data sources, creating field- and row-level transformations , creating and compiling jobs to load data into

selected targets. By the end of these training sessions, you will become expert in working with DataStage ETL tool

Datastage Online Training outline:

- Program Name: Datastage Training course
- Course Duration: 35 Hours
- Mode: Online virtual classes and corporate
- Timings: According to one's feasibility
- System Access : will be provided
- Batch Type: Regular , weekends and fast track
- Trainees will get the soft copy material.
- Sessions will be conduct through WEBEX, GOTOMEETING OR SKYPE.
- Basic Requirements: Good Internet Speed, Headset
- Advantages upon enrolling with Global Online Training:
- Global online Trainings provides an opportunity on Datastage Training for every IT consultant or an Fresher to upgrade their skills by learn the latest module which will make them to be the best in the race of learning new technology by expert certified consultants.
- Sessions we conduct are informative. We just don't teach the technology, rather we make the classes interactive and practical for better understand.
- The training what we offer are by the domain experts and certified consultants.
- We provide the review sessions and back up sessions if at all the participants have miss the sessions
- We also provide the support even after completion of the sessions, whether it may be regarding the subject or else the technical assistance.
- We work 24/7 to support our participants, irrespective of the time zone.
- The Online Datastage Training course syllabus is prepared as per the present market trend by the expert professionals.
- Mock interview will be conducted to make you self-confident on the technology you choose.

- After completion of course our experts helps you in resume preparation and prepare you to crack the interview.
- If you are phasing any issue in your present job, we also provide job support, if we think that we can resolve the issue then only we give you 100% commitment to resolve the issue.

PROLINE INFOTECH