Ab Initio Course Details

By **Besant Technologies**

Course Name	Ab Initio
Category	Oracle Fusion Middleware
Venue	Besant Technologies
Address	No.24, Nagendra Nagar, Velachery Main Road, Velachery, Chennai – 600 042 Landmark – Opposite to Phoenix Market City
Official URL	Ab Initio Training
Demo Classes	At Your Convenience
Training Methodology	30% Theory & 70% Practical
Course Duration	35-40 Hours
Class Availability	Weekdays & Weekends
For Demo Class	Call - +91-996 252 8293 / 94 Email ID – besanttech@gmail.com

Why Besant Technologies?

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Ab Initio Training Outline

Introduction to Ab Initio. Operating Systems & Hardware Platforms that it supports

Products of Ab Initio Software Corporation

- The Ab Initio Co>Operating System
- Graphical Development Environment (GDE)
- The Ab Initio Enterprise Meta>Environment (EME)

Salient Features of Ab Initio

Understanding the High Level Architecture of Ab Initio What is the Anatomy of

Running a Job? What happens when we push the â€˜Runâ€™ Button?

- Deployment Process
- Host Process Creation
- Agent Process Creation
- Component Process Creation
- Successful Component Termination
- Agent Termination
- Host Termination
- Abnormal Component Termination

How do we Connect from GDE to the Server

- Host Profile File (.aih)
- Connection, Co-Operating System, Shell & Host Directory

What is Graph Programming? What are the basic parts of an Ab Initio Graph?

Broad Classification of Components

- Dataset Components
- Program / Computing Components

Data Manipulation Language (DML)

- Record Formats
- DML Expressions
- Transform Functions
- Key Specifiers

How do we build a basic Ab Initio Graph? Using .dat(Data File) & .dml(Record Format File)

Dataset Components

- Input File
- Output File

- Intermediate File
- Lookup file

Editors in the GDE

- Record Format Editor
- Expression Editor
- Transform Editor
- Key Specifier Editor
- Package Editor
- Variables Editor
- Sequence Specifier Editor

Transform Functions

- Transform File(.xfr)
- Functions, Variables, Statements & Rules

Transform Components - Multistage and Advanced Components

- Filter by Expression
- Dedup Sorted
- Reformat
- Aggregate
- Scan
- Rollup
- Join
- Match Sorted
- Normalize
- Denormalize Sorted

Lookup Dataset’s & DML Lookup Functions Partition Components

- Broadcast
- Partition by Key
- Partition by Expression
- Partition by Percentage
- Partition by Range
- Partition by Round-Robin
- Partition with Load Balancing
- Multifiles and Multidirectories De-partition Components
- Concatenate
- Gather
- Interleave
- Merge

What is Parallelism - Types

- Component ||â€™sm
- Pipeline ||â€™sm
- Data ||â€™sm

Repartitioning â€" When & Why Layout Implications

- Sort
- Sort within Groups
- Sample
- Partition by Key & Sort
- Check point Sorted

Working with Databaseâ€™s. Introduction Database Configuration File (.dbc)

Interactive Database Components (IDB)

- Input Table
- Output Table
- Run SQL
- Truncate Table
- Update Table
- Join with DB

Miscellaneous Components

- Redefine Format
- Gather Logs
- Replicate
- Run Program
- Thrash

Deprecated Components

- Find Splitters
- Compress Components
- Compress Uncompress GZip GUnzip

File Transfer Protocol (FTP) Components

- FTP From
- FTP To

Testing and Validation of Ab Initio Graphs using Validate Components

- Check Order
- Compare Records
- Validate Records
- Generate Records
- Generate Random Bytes
- Compute Checksum
- Compare Checksum

Phasing & Checkpointing Reusability Features

Sub graphs Graph Parameters

The Ab Initio Enterprise Meta>Environment(EME)

- High level anatomy of the EME
- Relation to sandbox environment
- Checking in your sandbox
- Checking out a graph or a sandbox
- Locking in order to change an object
- Tagging
- Common projects
- Dependency and Impact analysis

Performance Tuning Ab Initio Graphs

- What is Good Performance?
- Going Parallel
- Serial Inputs
- Phases
- Record Formats and Components
- Memory Usage
- Various Tips