Understanding the Meaning Behind Big Data using HP IDOL

Course Outline

This course covers the fundamentals of the powerful and versatile HP IDOL platform and lays a firm foundation for the development of your IDOL knowledge to understand the meaning behind Big Data. Course completion allows the participant to take the ATP ExpertOne certification. This course is identical to the HP Software Education course HP IDOL Essentials.

Course Overview

Course Aspect	Description
Course Name	Understanding the Meaning Behind Big Data using HP IDOL
Course Duration	40 Hours
Audience	Fresher's with Computer Science knowledge, Administrators, System Engineers, Developers, and Project managers.
Training Format	Practical Hand-on course 70%, Theory 30% with both a dedicated computer and training room. Fully documented training materials are provided, which lay out the tasks and lessons planned for each day.
Type	ILT, VILT, onsite
Training Prerequisites	Please see section 2.0.
Suggested Skills	Basic Network/Software Administration, Basic Security, Web/Application Server, Knowledge Management, HTML, XML & XSLT.

Technical Difficulty

Training Path

Contact Us

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1 - Training Agenda

Understanding the Meaning Behind Big Data using HP IDOL - Course Curriculum

Lesson	Description
HP IDOL Overview	In order to understand the complexities of this powerful infrastructure software, this first lesson examines the technology from a high-level perspective, allowing the student to gain a holistic understanding of the technology and an insight into the entire philosophy, methodology and approach to making sense of information.
Installing the Lab infrastructure	The objective of this lesson is to show you how to install Connectors, CFS, HP IDOL, Retina (a front-end Web Application) and what you have to do to get them to work with each other.
HP IDOL Configuration	A vital lesson in learning how to prepare your HP IDOL prior to indexing data or sending queries to the engine. This lesson explains how to organize your indexes through the creation of tailored indexes. You are also going to be introduced to pre-indexing considerations and learn how to optimize the storage & performance of your index.
File System Connector CFS Aggregation	Having learned about pre-indexing considerations you will now index data using the File System Connector. In particular you will become familiar with using the Connector Framework Server to ingest content, and use Lua scripts to fine-tune the aggregation process.
Web crawling using HTTP Connector	This lesson examines the process of web crawling using the HTTP Connector allowing organizations to search external web sites, Intranets or Extranets. Further CFS Lua scripts are introduced in order to optimize the aggregation process to successfully aggregate Internet or Intranet content.

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Lesson	Description
Manual Indexing	This lesson examines HP IDOL's index structure. It discusses the ability to index IDX structured content. Furthermore, this lesson will help the student understand the communication between the Connector and HP IDOL. The result is that students will understand how to index content both automatically and manually into HP IDOL using best practice methods.
Indexing native XML (Manual Indexing commands)	This lesson demonstrates how to manually index native XML into HP IDOL. It provides a practical example to understand the indexing process in detail.
Retrieval	Having indexed a variety of content into HP IDOL this lesson presents the students with a variety of methods to query the engine. The initial interaction with HP IDOL will take place using the Retina web application. Initial topics such as Conceptual Search, Automatic Query Guidance, Suggest More, Federated Search, Automatic Hyperlinking, Keyword, Boolean and Proximity search are presented to the class. Later on, the student will also learn how to execute the same queries using HTTP Action commands.
Action Commands - Autonomy Syntax	This lesson will teach the delegate how to communicate directly with HP IDOL using HTTP action commands. Key areas including understanding the HTTP Action syntax, examining a wide variety of Action Commands and associated mandatory action parameters, in addition to a whole host of optional parameters.
Customizing the result fields	Students will learn how flexible HP IDOL responds to the user's queries. In this lesson you will learn how to configure HP IDOL so that results are displayed in the manner required.
Using HP IDOL's "Retina" Web Application	Participants employ the Retina Web Application to allow users to access a wide selection of HP IDOL features. This lesson will demonstrate how to create Channels, Agents, Profiles and perform advanced retrieval operations.
Backing up HP IDOL	The objective of this lesson is to demonstrate how to set up HP IDOL back-up processes, immediately and on a scheduled basis.

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Lesson	Description
Exporting an HP IDOL Index	Further HP IDOL maintenance procedures are demonstrated to promote best practice methods. In this lesson the student will learn how to take an existing HP IDOL index and export the content before re-importing the data again.
Setting up Parametric Search	The aim of this lesson is to configure and index data for parametric refinement. The lesson uses both Retina's parametric search functionality and direct action commands to demonstrate the full capability of guided navigation.
Advanced Querying	In order to implement advanced query features both administrators and developers need to examine further pre-indexing considerations This lesson helps students learn how to utilize the most effective retrieval methods that HP IDOL has to offer that solve business critical requirements.
Categorization	Organizing your information is a key method of allowing your users to navigate through vast quantities of unstructured data. This lesson teaches the students how to automatically categorize content at the point of index, thereby providing a meta rich index to search navigate or search from. Students will be presented with the work flow required to categorize content, build and train taxonomies using unstructured query language. Furthermore, Students will be asked to create and build categories within a defined hierarchy. In turn the taxonomy will be populated with information having indexed new data into HP IDOL.
Language Considerations	The objective of this lesson is to index content in multiple languages into HP IDOL and to understand how to accurately process documents in different encodings. Furthermore the lesson will show you how to incorporate the Automatic Language Detection feature within HP IDOL.
Customizing the result fields	Students will learn how flexible HP IDOL responds to the user's queries. In this lesson you will learn how to configure HP IDOL so that results are displayed in the manner required.
Aggregating content from a database using ODBC Connector	Having learned how to index content from both the web and from a File System we next look at how to aggregate content from a relational database using the ODBC Connector and CFS.

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Lesson	Description
Security - Intellectual Asset Protection System	This lesson provides an overview of IDOL's ability to support secure environments. From User Authentication to document level security and encrypted client-to-server communication, students will understand the HP IDOL components, workflow and configuration parameters required to secure an organization's intellectual assets.
Monitoring & Reporting	The aim of this lesson is to understand the role of IDOL's License Server. Participants learn about the license process and how to "revoke" a license when required. Additional information about Service action commands is also covered.
IDOL Admin Tool	This lesson introduces the IDOL Admin Tool, a web-based tool for administering the IDOL Content component.
Distributed Handlers	In multi-instance HP IDOL architectures we take a look at how to enable the Distributed Index Handler (DIH) to distribute content in a mirrored or non-mirrored architecture to support fail-over and load-balanced environments. Furthermore we will examine how to enable the Distributed Action Handler (DAH) to distribute action commands in a mirrored or non-mirrored architecture to support fail-over and load-balanced environments.
Performance and Best Practice	This lesson details best practices and performance related suggestions.
Review	This lesson reviews what you have learned in the Understanding the Meaning Behind Big Data using HP IDOL course and reiterates some of the key points from the training.