



J2I Study Abroad Training Program
オブジェクト指向プログラミングコース (Fundamental_IT)

Softbridge Solutions Japan Co.,Ltd.
 TEL: 03-5280-7818
 FAX: 03-5280-0503
 URL: <http://www.j2i.jp>

| ITコース | | | | |
|-----------------------|--|----------------|------|----------------------------|
| No | Module | Duration (hrs) | Days | Comment |
| 9 | OOPs Concepts & UML Design | 24 | 6 | Understanding OOPs & |
| 10 | Fundamentals of Java Programming Language (Core Java) | 40 | 10 | Basic JAVA Programming |
| 11 | Java Programming Language (Advanced Java) | 88 | 22 | J2EE / JSP included |
| 12 | Oracle 9i Application Developer | 72 | 18 | Database Programming |
| 13 | Oracle 9i DBA | 16 | 4 | Intro to Database |
| 14 | Mini Project (Java + Oracle 9i) | 40 | 10 | Application Devepolment |
| 14A | Preparation & Submission of Assignments & Case Studies | 20 | 5 | Assignment & Exam Schedule |
| | Term End Study Leave | 12 | 3 | |
| | Oral / Practical Exams | 4 | 1 | |
| | Theory Exams | 4 | 1 | |
| Total IT Hours / Days | | 320 | 80 | |

| 英語コース (E1かE2のどちらかを選択) | | | | |
|-----------------------|-------------------|----------------|------|---------|
| No | Module | Duration (hrs) | Days | Comment |
| E1 | Elementry English | 105 | 70 | |
| E2 | Advance English | 105 | 70 | |

| No | Certifications |
|----|---|
| 1 | (Cert Exam SCJD) Sun Certified Java Developer. |
| 2 | (Cert Exam SCJP) Sun Certified Java Professional |
| 3 | (Cert Exam OCP) Certified Professional |



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| No | Module | Duration (hrs) |
|---|--------------------|----------------|
| E1 | Elementary English | 105 |
| Pre-requisites : Basic language skills in Reading, Writing, Listening and Speaking | | |
| Objective : Students will learn how to - <ul style="list-style-type: none"> - express their ideas confidently in day-to day situations - Ask for and give personal and job related information - Answer / get through on The phone - give and take telephone messages - State reasons for a Call - Change arrangements - Confirming information - End a Call - Ask for and give information on companies and products - Say large numbers - Lay out a business letter, fax and memo - Ask for directions. - Talk about departments - Make plans and arrangements - Make appointments - Book a hotel room - Welcome visitors and Make small Talk - Describe business events - Write a letter requesting information - use social skills & cultural awareness in business and entertaining guests - Make and Accept or Decline invitations - take a business associate to dinner - Deal with problems and clients - Complain and Apologize - Present ideas effectively - to plan, prepare and structure presentations | | |
| Topics | | |
| The Course focuses on application of English Language in the day-to day situations as well as in the Real World Business context. <ul style="list-style-type: none"> - The focus is on Speaking, Listening and Reading Skills. - The Teaching methodology is based on Interactive communicative role plays, picture Reading, pair work, group discussions. | | |



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| No | Module | Duration (hrs) |
|---|-------------------------|----------------|
| E2 | Advanced English | 105 |
| Pre-requisites : Good language skills in Reading, Writing, Listening and Speaking. | | |
| Objective : Students will learn how to - <ul style="list-style-type: none"> - Ask for and give personal and job related information - Answer / get through on The phone - give and take telephone messages - State reasons for a Call - Change arrangements - Confirming information - End a Call - Ask for and give information on companies and products - Say large numbers - Lay out a business letter, fax and memo - Ask for directions. - Talk about departments - Make plans and arrangements - Make appointments - Book a hotel room - Welcome visitors and Make small Talk - Describe business events - Write a letter requesting information - use social skills & cultural awareness in business and entertaining guests - Make and Accept or Decline invitations - take a business associate to dinner - Deal with problems and clients - Complain and Apologize - Present ideas effectively - to plan, prepare and structure presentations | | |
| Topics | | |
| The Course focuses on application of English Language in the day-to day situations as well as in the Real World Business context. <ul style="list-style-type: none"> - The focus is on Speaking, Listening and Reading Skills. - The Teaching methodology is based on Interactive communicative role plays, picture Reading, pair work, group discussions. | | |



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| No | Module | Duration (hrs) |
|---|--|----------------|
| 9 | OOPs Concepts & UML Design | 24 |
| Pre-requisites : | | |
| <ul style="list-style-type: none"> - Basic understanding of OOPs - Strong Programming Logic - Good Implementation Knowledge of any Programming Language | | |
| Objective : | | |
| <ul style="list-style-type: none"> - Develop Strong Fundamentals of Software Development Life Cycle (SDLC) - Develop Practical skills in the latest OO analysis and design methods - Learn how a consistent use of OO techniques leads to shorter development life cycles, increased productivity and reduced system maintenance costs | | |
| Topics | | |
| 1 | Introducing the UML Relationships Interactions Patterns and Frameworks Rational Unified Process Case studies | |
| 2 | Introducing the UML Review of SDLC Why we Model Introducing the UML | |
| 3 | Relationships Classes Relationships Common mechanisms Diagrams Class diagrams Advanced classes Advanced Relationships | |
| 4 | Interactions Interfaces Types and Roles Packages Instances Object Diagrams Interactions Use Cases Use Case diagrams Interaction Diagrams Activity Diagrams | |
| 5 | Patterns and Frameworks Events and Signals State Machines Processes and Threads Time and Space State chart Diagrams Components Deployment Collaborations Patterns and Frameworks | |
| 6 | Rational Unified Process Component Diagrams Deployment Diagrams Systems and Models Applying UML Rational Unified Process | |
| 7 | Case Studies Gather requirement through UML tech. Provident fund calculation Food order automation Network based common mailing system Digital library for research papers | |



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| No | Module | Duration (hrs) |
|---|--|----------------|
| 10 | Fundamentals of Java Programming Language(Core Java) | 40 |
| Pre-requisites : - Create and edit text files using a text editor - Use a World Wide Web (WWW) browser - Solve mathematical or logic problems - Define common computer terminology - Understand the concept of a variable - Develop simple scripts or programs using a scripting or third-generation language | | |
| Objective : Understand the following thoroughly; - fundamentals of the Java language (using JDK 1.4) - Java language and it relation to OO programming and the Object Model - how to use Java multi-threading and exception handling features - Understand and use classes, inheritance, polymorphism - Understand the use of packages to organize code - Create well structured Java programs - Able to Compile and execute programs with the JDK 2 - Use the core Java libraries (java.lang, java.util packages) - Use Swing and the Java event delegation model to create well structured graphical user interfaces - Understand exceptions and use them for error handling - Understand and use basic I/O streams - Understand the basics of using JDBC (Java Database Connectivity) to access databases from Java - Develop GUI applications using AWT and Swing | | |
| Topics | | |
| 1 | Object Oriented Programming Concepts Conventional vs. Object Oriented Programming Inheritance, Encapsulation and Polymorphism | |
| 2 | Getting Started with Java™ Writing a Simple Class Adding Methods to the Class Language Statements Using Strings Specializing in a Subclass | |
| 3 | Essential Java™ Programming Fields and Variables Using Arrays Static Methods and Fields Java Packages Using the JDK | |
| 4 | Advanced Java™ Programming Inheritance and Polymorphism Interfaces and Abstract Classes Exception s Multithreading Programming JavaBeans™ | |



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| 5 | Java Developer's Toolbox Utility Classes Vector and Hashtable Collections Inner Classes Java I/O |
| 6 | Writing Graphical User Interfaces Containers and Layout Managers Writing Simple Graphical Applications Writing Complete Graphical Applications |
| 7 | Java™ Application Development File System Access Networking Java Database Connectivity (JDBC) Writing Java Applets |
| 8 | Enterprise Java Overview Developing Java Servlets Introduction to Java Server Pages (JSPs) Java for the Enterprise |



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| No | Module | Duration (hrs) |
|---|---|----------------|
| 11 | Java Programming Language (Advanced Java) | 88 |
| Pre-requisites : | | |
| <ul style="list-style-type: none"> - Basic Knowledge of OOPS - Strong Programming Logic - Good Implementation Knowledge of simple Java programs | | |
| Objective : | | |
| <ul style="list-style-type: none"> - Develop confidence & the steps required to design, develop and test Java programs - Develop Web based Applications Using JAVA - Develop confidence to appear for SCJP Exams | | |
| Topics | | |
| 1 | The java.sql package Driver Manager, Driver, Connection, Statement, Result Set Writing database applications Connector interface, creating new classes, applications | |
| 2 | Java Beans : Component Technology in Java (BDK) BeanBox concept Creating Beans with simple properties and methods Packaging Beans: Manifest files and jar files Using JavaBeans in IDEs | |
| 3 | Creating Beans with Bound properties Constrained properties Indexed properties Events Property editors, Customizers | |
| 4 | Servlets : Dynamic Content Generation Advantages of Servlets over CGI The Servlet interface The HttpServlet, HttpServletRequest, HttpServletResponse classes | |
| 5 | Session Tracking with Cookies & HttpSession JSP : Separating UI from Content generation code MVC architecture Life cycle of a JSP page Directives, Implicit and Explicit Objects, Scriptlets, Expressions | |
| 6 | Scope Session Tracking Custom Tag Libraries in JSP | |
| 7 | EJB : Server side distributed component architecture EJB containers EJB Types : Session and Entity Beans EJBObject, EJBHome | |
| 8 | Life Cycle of a stateless session Bean & stateful session bean Creating Beans Stateless Session Beans & Stateful Session Beans Deploying Beans : XML deployment descriptors Writing bean client applications Life Cycle of an Entity Bean | |
| 9 | Enterprise Java Beans Query Language Creating Entity Beans Message driven beans Calling EJBs from JSP pages JSP, Servlets and EJB in J2EE Java Security Web-tier security EJB-tier security Application-tier-client security Native Methods Calling Win32 APIs from Java | |



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| No | Module | Duration (hrs) |
|--|--|----------------|
| 12 | Oracle 9i Application Developer | 72 |
| Pre-requisites : - Basic Knowledge of Database - Basic Programming Skills | | |
| Objective : - Understand & gain confidence using Oracle 9i - Develop skills to work with DBA or Application Developers - Develop confidence & prepare individuals to appear for OCP | | |
| Topics | | |
| 1 | SQL Writing Basic SQL Select Statements Restricting and Sorting Data Single-Row Functions Displaying Data from Multiple Tables Aggregating Data using Group Functions Identify the available group functions Use group functions Group data using the GROUP BY clause Include or exclude grouped rows by using the HAVING clause | |
| 2 | Subqueries Describe the types of problems that subqueries can solve Define subqueries List the types of subqueries Write single-row and multiple-row subqueries | |
| 3 | Producing Readable Output with iSQL*Plus Produce queries that require a substitution variable Produce more readable output Create and execute script files | |
| 4 | Manipulating Data Describe each DML statement Insert rows into a table Update rows in a table Delete rows from a table Merge rows in a table Control transactions | |
| 5 | Creating and Managing Tables Describe the main database objects Create tables Describe the datatypes that can be used when specifying column definition Alter table definitions Drop, rename and truncate tables Including Constraints Describe constraints Create and maintain constraints | |
| 6 | Creating Views Describe a view Create, alter the definition, and drop a view Retrieve data through a view Insert, update and delete data through a view | |
| 7 | Creating Other Database Objects Create, maintain and use sequences Create and maintain indexes Create private and public synonyms | |
| 8 | Oracle Data Dictionary Describe the data dictionary views a user may access Query data from the data dictionary | |



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| 9 | Writing Control Structures Identify the uses and types of control structures Construct an IF statement Construct and identify different loop statements Use logic tables Control block flow using nested loops and labels |
| 10 | Working with Composite Datatypes Create user-defined PL/SQL records Create a record with the % ROWTYPE attribute Create a PL/SQL table Create a PL/SQL table of records Describe the difference between records, tables, and tables of records |
| 11 | Overview of Relational Databases, SQL, and PL/SQL Discuss the theoretical and physical aspects of a relational database Describe the Oracle implementation of the RDBMS and ORDBMS Describe the use and benefits of PL/SQL |
| 12 | Aggregating Data using Group Functions Identify the available group functions Use group functions Group data using the GROUP BY clause Include or exclude grouped rows by using the HAVING clause |
| 13 | Views Create and use an inline view Perform Top 'N' Analysis |
| 14 | Other Database Objects Describe database objects and their uses Create, maintain, and use sequences Create and maintain indexes Create private and public synonyms |
| 15 | Controlling User Access Create users Create roles to ease setup and maintenance of the security model Use the GRANT and REVOKE statements to grant and revoke object privileges |
| 16 | Declaring Variables List the benefits of PL/SQL Describe the basic PL/SQL block and its sections Describe the significance of variables in PL/SQL Declare PL/SQL variables Execute a PL/SQL block |
| 17 | Writing Explicit Cursors Distinguish between an implicit and an explicit cursor Use a PL/SQL record variable Write a cursor FOR loop |
| 18 | Advanced Explicit Cursor Concepts Write a cursor that uses parameters Determine when a FOR UPDATE clause in a cursor is required Determine when to use the WHERE CURRENT OF clause Write a cursor that uses a subquery |
| 19 | Writing Basic SQL Statements List the capabilities of SQL SELECT statements Execute a basic SELECT statement Differentiate between SQL statements and SQL*Plus commands |
| 20 | Restricting and Sorting Data Limit the rows retrieved by a query Sort the rows retrieved by a query |



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| 21 | Displaying Data from Multiple Tables Write SELECT statements to access data from more than one table by using equality and nonequality joins View data that generally does not meet a join condition by using outer joins Join a table to itself |
| 22 | Single Row Functions Describe the various types of functions available in SQL Use character, number, and date functions in SELECT statements Describe the use of conversion functions |
| 23 | Writing Executable Statements Describe the significance of the executable section Write statements in the executable section Describe the rules of nested blocks Execute and test a PL/SQL block Use coding conventions |
| 24 | Interacting with the Oracle Server Write a successful SELECT statement in PL/SQL Declare the datatype and size of a PL/SQL variable dynamically Write DML statements in PL/SQL Control transactions in PL/SQL Determine the outcome of SQL DML statements |
| 25 | Handling Exceptions Define PL/SQL exceptions Recognize unhandled exceptions List and use different types of PL/SQL exception handlers Trap unanticipated errors Describe the effect of exception propagation in nested blocks Customize PL/SQL exception messages |
| 26 | Subqueries Describe the types of problems that subqueries can solve Define subqueries List the types of subqueries Write single-row and multiple-row subqueries |
| 27 | Multiple-Column Subqueries Write multiple-column subqueries Describe and explain the behavior of subqueries when null values are retrieved Write subqueries in a FROM clause |
| 28 | Producing Readable Output with iSQL*Plus Produce queries that require a substitution variable Produce more readable output Create and execute script files |
| 29 | Manipulating Data Describe each DML statement Insert rows into a table Update rows in a table Delete rows from a table Merge rows in a table Control transactions |
| 30 | Including Constraints Describe constraints Create and maintain constraints |



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| No | Module | Duration (hrs) |
|--|---|----------------|
| 13 | Oracle 9i DBA | 16 |
| Pre-requisites : | | |
| - Thorough knowledge of Oracle 9i | | |
| Objective : | | |
| - To gain confidence as Oracle Database Administrator | | |
| - To achieve Oracle Database Administrator Certification | | |
| Topics | | |
| 1 | Oracle Architectural Components Describe the Oracle architecture and its main components Describe the structures involved in connecting a user to an Oracle instance | |
| 2 | Getting Started With the Oracle Server Identify common database administrative tools available to a DBA Identify the features of the Oracle Universal Installer Explain the benefits of Optimal Flexible Architecture Set up password file authentication List the main components of the Oracle Enterprise Manager and their uses | |
| 3 | Maintaining the Control File Explain the uses of the control file Describe the contents of the control file Multiplex and manage the control file Manage the control file with Oracle Managed Files Obtain control file information | |
| 4 | Managing Tablespaces and Data files Describe the logical structure of tablespaces within the database Create tablespaces Change the size of the tablespace Allocate space for temporary segments Change the status of tablespaces Change the storage settings of tablespaces Implement Oracle Managed Files | |
| 5 | Managing Tables Identify the various methods of storing data Describe Oracle data types Distinguish between an extended versus a restricted ROWID Describe the structure of a row Create regular and temporary tables Manage storage structures within a table Reorganize, truncate, drop a table Drop a column within a table | |
| 6 | Managing an Oracle Instance Create and manage initialization parameter files Configure OMF Start up and shut down an instance Monitor the use of diagnostic files | |
| 7 | Creating a Database Describe the prerequisites necessary for database creation Create a database using Oracle Database Configuration Assistant Create a database manually | |
| 8 | Maintaining Redo Log Files Explain the purpose of online redo log files Describe the structure of online redo log files Control log switches and checkpoints Multiplex and maintain online redo log files Manage online redo log files with OMF | |



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| 9 | Storage Structure and Relationships Describe the logical structure of segments within the database Describe the segment types and their uses List the keywords that control block space usage Obtain information about storage structures from the data dictionary |
| 10 | Managing Undo Data Describe the purpose of undo data Implement Automatic Undo Management |
| 11 | Managing Indexes Describe the different types of indexes and their uses Create various types of indexes Reorganize indexes Drop indexes Get index information from the data dictionary Monitor the usage of an index |
| 12 | Data Dictionary Content and Usage Identify key data dictionary components Identify the contents and uses of the data dictionary Query the data dictionary |
| 13 | Managing Password Security and Resources Manage passwords using profiles Administer profiles Control use of resources using profiles Obtain information about profiles, password management and resources Managing Users Create new database users Alter and drop existing database users Monitor information about existing users Managing Privileges Identify system and object privileges Grant and revoke privileges Identify auditing capabilities Managing Roles Create and modify roles Control availability of roles Remove roles Use predefined roles Display role information from the data dictionary Maintaining Data Integrity Implement data integrity constraints Maintain integrity constraints Obtain constraint information from the data dictionary Using Globalization Support Choose database character set and national character set for a database Specify the language- dependent behavior using initialization parameters, environment variables and the ALTER SESSION command Use the different types of National Language Support (NLS) parameters Explain the influence on language-dependent application behavior Obtain information about Globalization Support usage |



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| 14 | <p>Oracle9i Performance Tuning Describe the roles associated with the database tuning process Describe the dependency between tuning in different development phases Describe service level agreements Describe appropriate tuning goals Describe the most common tuning problems Describe the tuning considerations during development and production Describe performance and safety tradeoffs Sizing the Buffer Cache Describe how the buffer cache is used by different Oracle processes Describe the tuning issues related to the buffer cache Monitor the use of the buffer cache, also the different pools within the buffer cache Implement dynamic SGA allocation Set the DB_CACHE_ADVICE parameter Create and size multiple buffer pools Detect and resolve free list contention Sizing other SGA Structures Monitor and size the redo log buffer Monitor and size the java pool Control the amount of Java session memory used by a session</p> |
| 15 | <p>Oracle9i Performance Tuning Configure the instance to use I/O Slaves Configure and use multiple DBW processors Monitoring and Detecting Lock Contention Define levels of locking Describe possible causes of contention Use Oracle utilities to detect lock contention Resolve contention in an emergency Prevent locking problems Recognize Oracle errors arising from deadlocks Using Oracle Blocks Efficiently Describe the correct usage of extents and Oracle blocks Explain space usage and the high water mark Determine the high water mark Recover space from sparsely populated segments Describe and detect chaining and migration of Oracle blocks Perform index reorganization Monitor indexes to determine usage Diagnostic and Tuning Tools</p> |
| 16 | <p>Explain how the alert.log file is used Explain how background trace files are used Explain how user trace files are used Describe the statistics kept in the dynamic performance views Explain how StatsPack collects statistics Collect statistics using StatsPack Collect statistics using Enterprise Manager Use other tuning tools Database Configuration and I/O Issues Explain the advantages of distributing different Oracle file types Describe reasons for partitioning data in tablespaces Diagnose tablespace usage problems Describe how checkpoints work Monitor and tune checkpoints Monitor and tune redo logs Optimize Sort Operations Describe how sorts are performed Identify the SQL operations which require sorts Differentiate between disk and memory sorts Create and monitor temporary tablespaces</p> |
| 17 | <p>Reduce total sorts and disk sorts Determine the number of sorts performed in memory Set old and new sort parameters</p> |



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| 18 | <p>Tuning Oracle Shared Server</p> <ul style="list-style-type: none"> Identify issues associated with managing users in a Shared Server environment Diagnose and resolve performance issues with Oracle Shared Server processes Configure the Oracle Shared Server environment to optimize performance Application Tuning Describe the role of the DBA in tuning Applications Explain different storage structures, and why one storage structure may be preferred over another Explain the different types of indexes Explain Index Organized Tables Describe partitioning methods Explain the use of the DBMS_STATS procedure Describe Materialized Views and use of Query Rewrites List requirements for OLTP, DSS and Hybrid Systems SQL Statement Tuning Describe how the Optimizer is used Explain the concept of plan stability Use stored outlines Describe how hints are used Use SQL Trace and TKPROF Collect statistics on indexes and tables Describe the use of histograms Copy statistics between databases Sizing the Shared Pool |
| 19 | <p>Tuning Oracle Shared Server</p> <ul style="list-style-type: none"> Measure and tune the library cache hit ratio Measure and tune the dictionary cache hit ratio Size and pin objects in the shared pool Tune the shared pool reserve space Describe the UGA and session memory considerations Explain other tuning issues related to the shared pool Set the large pool Diagnosing Contention For Latches Describe the purpose of latches Describe the different types of latch request Diagnose contention for latches Tune the appropriate resources to minimize latch contention Tuning the Operating System and Using Resource Manager Describe different system architectures Describe the primary steps of OS tuning Identify similarities between OS and DB tuning Understand virtual memory and paging Explain the difference between a process and a thread Set up Database Resource Manager Assign users to Resources Manager groups Create resource plans within groups |
| 20 | <p>Networking Overview</p> <ul style="list-style-type: none"> Explain solutions included with Oracle9i for managing complex networks Describe Oracle networking add-on solutions |
| 21 | <p>Basic Oracle Net Architecture</p> <ul style="list-style-type: none"> Explain the key components of the Oracle Net layered architecture Explain Oracle Net Services role in client server connections Describe how web client connections are established through Oracle networking products |
| 22 | <p>Backup and Recovery Overview</p> <ul style="list-style-type: none"> Describe the basics of database backup, restore and recovery List the types of failure that may occur in an Oracle environment Define a backup and recovery strategy |
| 23 | <p>Instance and Media Recovery Structures</p> <ul style="list-style-type: none"> Describe the Oracle processes, memory structures, and files relating to recovery Identify the importance of checkpoints, redo log files, and archived log files Describe ways to tune instance recovery |



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| 24 | <p>Oracle Recovery Manager Overview and Configuration Identify the features and components of RMAN Describe the RMAN repository and control file usage Describe channel allocation Describe the Media Management Library interface Connect to RMAN without the recovery catalog Configure the RMAN environment</p> |
| 25 | <p>User-Managed Complete Recovery Describe media recovery Perform recovery in Noarchivelog mode Perform complete recovery in Archivelog mode Restore datafiles to different locations Relocate and recover a tablespace by using archived redo log files Describe read-only tablespace recovery</p> |
| 26 | <p>Recovery Catalog Creation and Maintenance Describe the contents of the recovery catalog Create the recovery catalog Maintain the recovery catalog by using RMAN commands Use RMAN to register, resynchronize, and reset a database Query the recovery catalog to generate reports and lists Create, store, and run scripts Describe methods for backing up and recovering the recovery catalog</p> |
| 27 | <p>Basic Net Server-Side Configuration Identify how the listener responds to incoming connections Configure the listener using Oracle Net Manager Control the listener using the Listener Control Utility (lsnrctl) Describe Dynamic Service Registration Configure the listener for IIOP and HTTP connections</p> |
| 28 | <p>Basic Oracle Net Services Client-Side Configuration Describe the difference between host naming and local service name resolution</p> |
| 29 | <p>Configuring the Database Archiving Mode Describe the differences between Archivelog and Noarchivelog modes Configure a database for Archivelog mode Enable automatic archiving Perform manual archiving of logs Configure multiple archive processes</p> |
| 30 | <p>Configure multiple destinations, including remote destinations</p> |
| 31 | <p>Oracle Recovery Manager Overview and Configuration Identify the features and components of RMAN Describe the RMAN repository and control file usage Describe channel allocation Describe the Media Management Library interface Connect to RMAN without the recovery catalog Configure the RMAN environment Perform recovery in Noarchivelog mode Perform complete recovery in Archivelog mode Restore datafiles to different locations Relocate and recover a tablespace by using archived redo log files</p> |
| 32 | <p>Transporting Data Between Databases Describe the uses of the Export and Import utilities Describe Export and Import concepts and structures Perform simple Export and Import operations List guidelines for using Export and Import</p> |



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| 33 | <p>User-Managed Incomplete Recovery Describe the steps of incomplete recovery Perform an incomplete database recovery Identify the loss of current online redo log files Basic Oracle Net Services Client-Side Configuration Describe the difference between host naming and local service name resolution Use Oracle Net Configuration Assistant to configure: Host Naming, Local naming method, Net service names Perform simple connection troubleshooting Usage and Configuration of the Oracle Shared Server Identify the components of the Oracle Shared Server Describe the Oracle Shared Server architecture Configure the Oracle Shared Server Identify and explain usefulness of related dictionary views</p> |
| 34 | <p>RMAN Backups Identify types of RMAN specific backups Use the RMAN BACKUP command to create sets Back up the control file Back up the archived redo log files Use the RMAN COPY command to create image copies</p> |
| 35 | <p>RMAN Incomplete Recovery Perform an incomplete database recovery using UNTIL TIME Perform an incomplete database recovery using UNTIL SEQUENCE</p> |
| 36 | <p>RMAN Maintenance Perform cross checking of backups and copies Update the repository when backups have been deleted Change the availability status of backups and copies Make a backup or copy exempt from the retention policy Catalog backups made with operating system commands</p> |
| 37 | <p>RMAN Complete Recovery Describe the use of RMAN for restoration and recovery</p> |
| 38 | <p>Loading Data into a Database Demonstrate usage of direct-load insert operations Describe the usage of SQL*Loader Perform basic SQL*Loader operations List guidelines for using SQL*Loader and direct-load insert</p> |



J2I Study Abroad Training Program
オブジェクト指向プログラミングコース (Fundamental_IT)

Softbridge Solutions Japan Co.,Ltd.
 TEL: 03-5280-7818
 FAX: 03-5280-0503
 URL: <http://www.j2i.jp>

| No | Module | Duration (hrs) |
|--|---|----------------|
| 14 | Project -Application Development J2EE / JSP / Struts | 40 |
| Pre-requisites : - Knowledge of Java Programming Language - Knowledge of Web based programming Architecture | | |
| Objective : - Develop skills to design and build scalable, secure, maintainable web applications - Delivery of scalable enterprise applications with complex web interfaces based on J2EE technologies - Knowledge of common web application design problems (J2EE Design patterns) - Through knowledge for developing applications in J2EE and web technologies such as Servlets, JSPs, EJBs & Struts | | |
| Topics | | |
| 1 | J2EE Application Architecture Technical Overview of J2EE J2EE Application Architectures (Web based) | |
| 2 | Servlets API Essentials Servlets Writing a Basic HttpServlet Form Processing Controlling Client Behavior Sessions and Cookies | |
| 3 | Writing JavaServer™ Pages Introduction to JavaServer™ Pages Basic JSP Syntax Implicit Objects Actions and JavaBeans™ Brief Overview of JSTL | |
| 4 | Web Applications Understanding Web Applications Configuring Web Applications Application and Session Events | |
| 5 | Security (Optional) Overview of Security Form Based Security Basic Authentication Programmatic Security | |
| 6 | Writing Custom Tags Introduction to Custom Tags Developing Custom Tags Developing Advanced Custom Tags (Optional) | |
| 7 | Getting Started with Struts Jakarta Struts Project MVC and Struts Review Servlets, JSP and Web Applications Struts Controller, Views and Resources | |



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| | |
|----|--|
| 8 | Your First Struts Application Configuring Struts applications Defining views & actions Defining FormBeans Action Mappings |
| 9 | Mapping the Model to the View Review of Using Custom Tags Introducing Struts Tags Using HTML Tags Using Bean Tags Using Logic Tags |
| 10 | Project Work |
| 11 | Uploading Files and I18N Uploading Files Internationalization |
| 12 | Advanced Form Management DynaActionForms The Validator Framework |
| 13 | Working with Tiles Using Tiles Advanced Tiles |