

2005 - 2006

Sybase Education Catalog

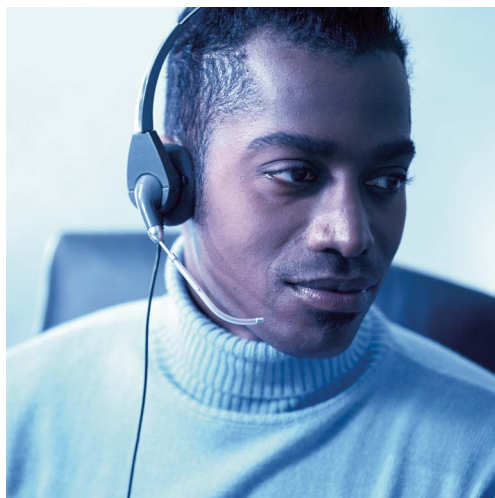
Training on Sybase, Java/J2EE, XML, and Linux



In-depth, hands-on and certification-focused training.

SYBASE®

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SYBERLEARNING LIVE OFFERS...

- ▶ Lecture-only and full lecture/lab online course deliveries
- ▶ LIVE interaction with Sybase Certified Instructors
- ▶ Courseware, for lecture/lab courses, delivered to you
- ▶ Hands-on labs for full lecture/lab courses
- ▶ Convenient schedule so you don't have to be out of the office for the whole day

LISTEN TO WHAT THE CUSTOMERS HAVE TO SAY...

"It was great to get training without having to travel. The Syber-Learning method of delivery was great...highly recommended."

William, Cornell University

"Excellent SyberLearning format and instructor! Very pleased."

Doug, Stanford University

"I just completed the Syberlearning class on Query Optimization with Gary. I have taken many different Sybase classes, but this was my first SyberLearning class and it went very well ...I'm glad to see Sybase placing top instructors in the SyberLearning classes..."

Micah, Pella Corporation

WE BRING THE LEARNING TO YOU!

Sybase has enhanced its virtual classroom training, SyberLearning LIVE. SyberLearning LIVE now delivers to your desktop the same high quality, interactive experience you've come to expect from Sybase Education.

SYBERLEARNING ONDEMAND

TAKE ADVANTAGE OF THIS OFFERING NOW!

This popular delivery option allows you to choose from a collection of recorded SyberLearning LIVE instructor-led training classes. You can select only what you and your organization needs in a self-paced training program. SyberLearning OnDemand allows either a student or an organization unlimited use of the courses for a limited amount of time. You'll see immediate cost savings when you purchase a title for 5 or more users or when you purchase a package of titles.

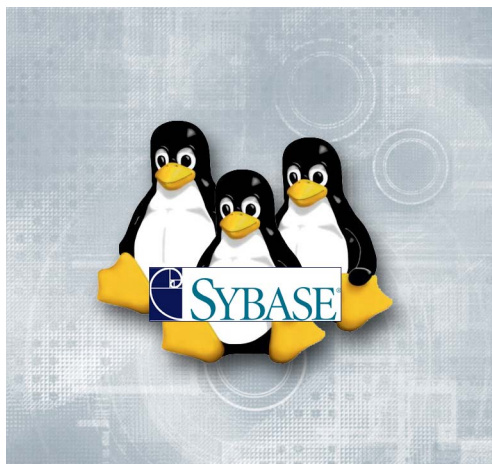
Select only the courses that will help your team achieve optimal performance from our SyberLearning OnDemand course catalog. For a preview of SyberLearning OnDemand or complete course descriptions of our SyberLearning OnDemand courses, visit <http://www.sybase.com/support/education/syberlearningondemand>.



SYBERLEARNING LIVE...

AT HOME, IN THE OFFICE, ANYWHERE.

Register today for SyberLearning LIVE courses!



LINUX MEANS IT COST SAVINGS! **NEW**

INTRODUCING OUR LINUX MIGRATION LEARNING PATH

Sybase Education now offers an extended suite of Sybase and Red Hat Linux courses to meet the diverse training needs of customers.

These courses span a variety of topics to meet your ASE and Replication Server needs on the Red Hat Enterprise Linux platform.

Don't know which Red Hat class is right for you? Take our Red Hat Linux Pre-Assessment Questionnaire - Fully-automated. Completely free. Eliminate guesswork and pinpoint the course that's right for you in less than 15 minutes.

Visit <http://www.sybase.com/education/coursecatalog/linux/linux> and take this free self-assessment.

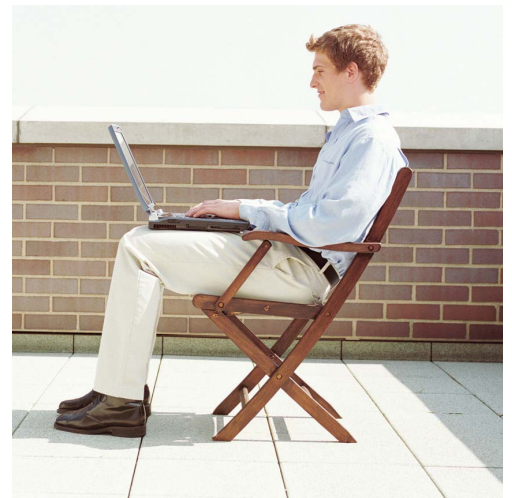
INDIVIDUAL RED HAT CLASSES OR FULL BUNDLES

JUMP START Certification Goal: Red Hat Certified Technician (RHCT)	RH033 RED HAT LINUX ESSENTIALS RH133 RED HAT LINUX SYSTEM ADMINISTRATION & RHCT EXAM
MIDWAY Certification Goal: Red Hat Certified Engineer (RHCE)	RH133 RED HAT LINUX SYSTEM ADMINISTRATION & RHCT EXAM RH253 RED HAT LINUX NETWORKING & SECURITY ADMINISTRATION RH302 RHCE CERTIFICATION LAB EXAM
WORKS BUNDLE Certification Goal: Red Hat Certified Engineer (RHCE)	RH033 RED HAT LINUX ESSENTIALS RH133 RED HAT LINUX SYSTEM ADMINISTRATION & RHCT EXAM RH253 RED HAT LINUX NETWORKING & SECURITY ADMINISTRATION RH302 RHCE CERTIFICATION LAB EXAM
PREMIER BUNDLE Certification Goal: Red Hat Certified Engineer (RHCE)	RH033 RED HAT LINUX ESSENTIALS RH133 RED HAT LINUX SYSTEM ADMINISTRATION & RHCT EXAM RH253 RED HAT LINUX NETWORKING & SECURITY ADMINISTRATION RH300 LINUX RAPID TRACK COURSE WITH RHCE EXAM
EDB562 UNIX TO LINUX MIGRATION FOR ADAPTIVE SERVER ENTERPRISE (3 DAYS)	Learn how to assess an existing Unix or Windows environment and migrate your production level ASE databases to a Linux production environment.
EDB564 UNIX TO LINUX MIGRATION FAST START (5 DAYS)	Migration from the OS to the database. This class will include advanced P&T training for both Red Hat Linux and Sybase ASE.

To register for a class or speak to an education representative about onsite or custom integrated training, call 1-800-8-SYBASE (1-800-879-2273), Option 2.

UNWIRING THE ENTERPRISE

Sybase education offers you a comprehensive curriculum path that will assist you in wireless application development. Learn all you need to know about Sybase's wireless technologies from experienced, certified and highly-qualified wireless developers. Get trained and begin to Unwire your Enterprise today!



UNWIRED COURSES

DEV333 Building Wireless Enterprise Applications Using PocketBuilder (2 Days)	For experienced PowerBuilder Developers who want to design and build a PocketBuilder application that uses an Adaptive Server Anywhere (ASA) database and MobiLink synchronization.
IAS183 Adaptive Server Anywhere 9.0 Fundamentals (4 Days)	Learn how to develop and manage ASA databases and meet the Unwired Enterprise standards for data availability, security, consistency, and integrity.
IAS184 Manage Anywhere Studio 5.0 Administration (2 Days)	Learn how to deploy and install clients, distribute software to client computers, and collect/manage hardware and software inventory while creating a variety of packages.
IAS380 Synchronizing Data Using MobiLink 8.0 (3 Days)	Learn synchronization and advanced techniques for wireless applications that use MobiLink technology.
IAS384 REPLICATING DATA USING SQL REMOTE 9.0 (3-DAYS)	Explore the design and implementation of a replicated Adaptive Server Anywhere (ASA) database and implement remote database architecture.



PROFESSIONAL CERTIFICATION PROGRAM

WITH OVER 40,000 PARTICIPANTS!

Professional certification programs from Sybase offer you the technical skills, experience, and confidence to design and implement real-world solutions, which make you valuable to your clients and your team. Ultimately, this provides a competitive advantage for your entire organization through enhanced service, higher productivity, and lower operating costs.

Whether it is a Sybase Professional or a Third-Party Certification, you can be confident that we will provide the courses you need to get certified!

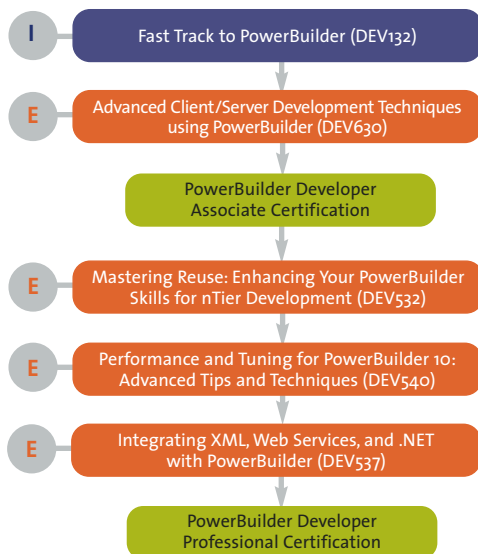
WHAT'S IN IT FOR YOU?

- ▶ Demonstrate your in-depth technical skills
- ▶ Earn recognition for your learning efforts
- ▶ Accelerate your career development plans
- ▶ Makes you a more valuable member for your employer's team

WHAT'S IN IT FOR EMPLOYERS?

- ▶ Strengthen your employees' technical skills
- ▶ Independently validate your employees' skill levels
- ▶ Increase your employees' productivity
- ▶ Improve your employees' ability to deliver projects more effectively

Sample Learning Path shown below:



LEARNING PATHS

Learning Paths have been clearly defined to help you in developing your skills and achieving professional certification. They list the courses, from Introductory (I) to Expert (E), that will get you on your way. If you already have some experience or have taken some courses, speak with a Sybase Education Representative who can suggest where best to enter the Learning Path in order to optimize your learning experience.

CERTIFICATION EXAMS

The exams are independently administered and may be taken at your convenience at any ProMetric Testing Center. We provide you with practice exams, study guidelines and other material to help you achieve your desired certification.

For more information on our professional certification program, please visit www.sybase.com/support/education/certification

SEVERAL WAYS
TO LEARN
WHILE YOU SAVE
BIG!

Pick the one that is
best for you

SYBASE EDUCATION PASSPORT

YOU CAN HAVE IT ALL FOR ONLY \$8,980, UP TO 50% SAVINGS AND MORE VERSUS OUR STANDARD PRICING!*

The Sybase Education Passport lets you attend unlimited number of training classes for one year. With the Sybase Education Passport, the more classes you attend, the sharper your skills become, and the quicker you'll see an increase in the return on your investment. If professional certification is your goal, use your Passport to select the recommended courses that help build your technical skills, experience, and confidence, and prepare you to take a Sybase Certified Professional exam with your free exam voucher. For one year, you can have it all!

\$8,980 is the price for US students. Actual savings depends on actual usage.

Subject to terms and conditions of the Sybase Education Passport Program. Prices, schedules and discounts are subject to change without notice.

INTRODUCING SYBASE EDUCATION REWARDS NOW EARN UP TO 3,500 POINTS EVERY TIME YOU ENROLL IN A CLASS!

Sybase Education Rewards members can earn one Rewards Point for each \$1 spent for training in a Sybase Learning Center class, SyberLearning LIVE class, for the purchase of an individual copy of a SyberLearning OnDemand class or a Certification Practice Exam. For each 5,000 points you earn, you may redeem them for one day of training.

Use the following link below to become a member or to learn more about the Sybase Education Rewards Program –

<http://www.sybase.com/support/education/educationrewards>



SYBASE EDUCATION PACKAGES DISCOUNTED DAYS OF TRAINING

Sybase Education offers discounted training packages that anyone on your staff can use a significant value for your training investment. These packages can be redeemed at any Sybase or Authorized Sybase Education Partner. With limited budgets comes limited training, the very same training you and your staff need to be successful and function at the highest level of productivity. Contact an Education Representative for more information.

Subject to terms and conditions of the Sybase Education Packages Program. Prices, schedules and discounts are subject to change without notice.

A REWARDING EXPERIENCE

High-quality training from Sybase Education Services teaches you to work with Sybase and other relevant technology products more effectively and productively. Our extensive and comprehensive IT curriculum is designed to meet your needs. In depth, hands-on, and certification-focused training teaches solid, useful skills to help you work more effectively, more productively.

For more information on our promotions, please visit
www.sybase.com/education

SYBERLEARNING LIVE PASS

NOW GETTING SYBERLEARNING LIVE TRAINING IS EASIER

Buy a SyberLearning LIVE Pass and get up to 50% savings and more compared to our standard pricing! SyberLearning LIVE Pass lets you attend an unlimited number of SyberLearning LIVE classes for one year. With the SyberLearning LIVE Pass, the more classes you attend, the sharper your skills become, and the faster you'll increase the return on your investment. Use your SyberLearning LIVE Pass to select the recommended SyberLearning courses in a certification path and prepare to take a Sybase Certified Professional exam. You can have it all for one full year at the incredibly low price of \$6,000 (US).

DELIVERY AT YOUR CONVENIENCE

Three convenient delivery formats help you maximize your time, learning, and budget. Our certified instructors teach our courses: at a convenient Sybase Learning Center, at your site, or on line with SyberLearning LIVE, a virtual classroom tool that brings the education experience along with the instructor—directly to your PC.

Our range of training services makes it easy to develop individual and team capability in today's rapidly changing technology environment.

HANDS-ON AND IN-DEPTH CURRICULUM

Our curriculum covers all Sybase products, and supports major technologies, such as J2EE, Java, and XML. The main curriculum areas are listed below:

- Database & Replication Servers
- Linux
- Data/Business Process Modeling
- Application Development
- Web Development (J2EE, Java, XML)
- Application Servers
- Business Process Integration
- Mobile & Wireless
- Frontline Management
- Enterprise Portals

For detailed courses, course descriptions, schedule and booking information, please visit our website.

CERTIFICATION-FOCUSED

Professional certification from Sybase offers you the technical skills, experience, and confidence to design and implement real-world solutions. Our industry-recognized certification enables you to provide added value to you, your clients and your team and ultimately provides a competitive advantage for your entire organization through enhanced service, higher productivity, and lower operating costs.

We also offer practice exams to help you prepare for your certification tests.

Full details of our certification programs can be found at www.sybase.com/support/education/certification.

EXPERIENCED INSTRUCTORS

Our instructors follow a rigorous certification process, have hands-on experience with the technologies they teach and are always up to date on the latest products and developments. Many also have extensive consultancy and development experience to share with you.

QUALITY COMMITMENT

Your satisfaction is guaranteed. We work hard to provide a high quality experience from our course offerings. We have implemented a Quality Management System (QMS), certified to ISO9001, that ensures the quality of our business processes and delivery capability.

We do this in order to constantly improve our service. Should we not meet your expectations, please advise us immediately and we will remedy the situation.

SATISFIED CUSTOMERS

"An excellent course, very useful and well organized"

Tom, ING Bank

"A very good course which imparts some very useful information on diagnosing and rectifying problems. Definitely a must for all DBAs"

Rajeev, British Telecom

"Excellent course with plenty of content, combining theory and practical work"

Stephen, Global Wireless

"Very well designed. Course materials excellent"

Tony, Perot Systems

SYBERLEARNING LIVE TRAINING

We bring the learning to you. We've combined the best of traditional instructor-led training with easy-to-use, powerful technology to create a great virtual classroom experience. SyberLearning LIVE is instructor-led, student-interactive training delivered LIVE over the Internet.

It leverages top, experienced certified instructors, LIVE interaction, support, and exchange of ideas, outstanding courseware, and an on-line lab environment on the Internet that's accessible anytime, from anywhere. Try SyberLearning LIVE today!

SYBERLEARNING ONDEMAND

Take advantage of this offering now!

Select only the courses that will help your team to achieve optimal performance from our SyberLearning OnDemand course catalog. For a preview of SyberLearning OnDemand or complete course descriptions of our SyberLearning OnDemand courses, visit <http://www.sybase.com/support/education/syberlearningondemand>.

LEARNING CENTER TRAINING

Our training centers are conveniently located in major metropolitan areas. We maintain a public class schedule and compliment this schedule with our SyberLearning LIVE schedule in order to meet most clients' needs.

ON-SITE TRAINING

Let Sybase do the traveling, you focus on the learning. Our on-site training program covers the broad range of Sybase technology and extends our Learning Center courses and curricula to your location. We can even customize our courses to meet the needs of you and your team. Economical, convenient, and made to fit your schedule, Sybase on-site training gives you what you need when and where you need it.

CUSTOMIZED TRAINING

Tailored just right to fit your needs. We have many years of experience creating special training programs that are tailored to our customers' precise business needs. We can incorporate selected modules from our course library plus incorporate custom-developed material related to your specific environment as required. This ensures that training integrates seamlessly into your IT solution projects. Based on your needs, this training can be delivered in our Learning Centers, at your site, or on-line with SyberLearning LIVE.

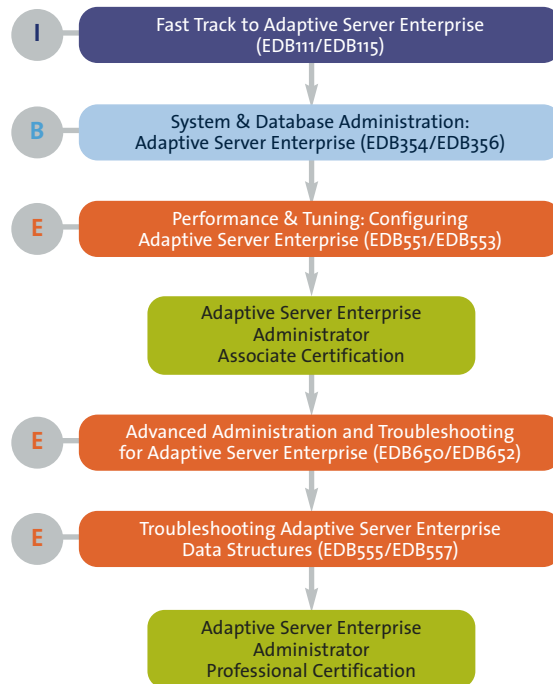
SHARE OUR FORMULA FOR SUCCESS

Our philosophy is to work closely with you, building a long-term relationship to help you achieve your business goals. We aim to be your education provider of choice, providing training services which integrate with your business and technology solutions.

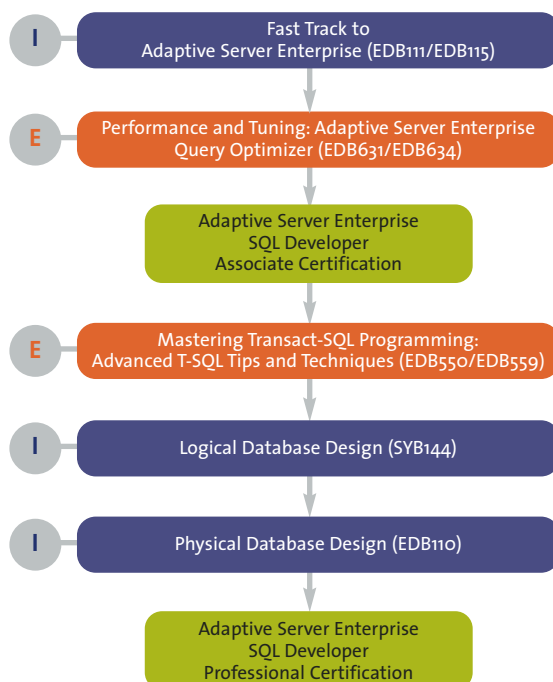
To find out more about how we can help you maximize the value of your current investment in key technologies, visit www.sybase.com/education or call 1-800-8-SYBASE.

Learning Path

ASE Administrator Certification



ASE Developer Certification



Additional Courses

ASE ADMINISTRATION

I INTRODUCTORY

Introduction to SQL	EDB100
Quick-Start for ASE Administrators of SAP/BusinessOne	EDB103
Adaptive Server Anywhere 9.0 Fundamentals	IAS183

B BUILDING

Powering Up with Adaptive Server Enterprise 15.0	EDB366
High Availability: Adaptive Server Enterprise Companion Server	EDB310
Fast Track to Dynamic Archiving	EDB352
Powering Up with Adaptive Server Enterprise 12.5.2	EDB365
Powering up w/ASE 12.5	EDB364
Managing and Tuning Tempdb	WEB360
Using Abstract Query Plans	WEB362
Dynamic Reconfiguration for Managing Memory	WEB366
Interpreting the Major ASE System Tables	WEB368
Implementing Adaptive Server Enterprise Replicator	WEB456

E EXPERT

Admin Syb IQ 12.6	EDB698
Unix to Linux Migration for Adaptive Server Enterprise	EDB562
Administering Sybase IQ for the Data Warehouse	EDB694
Unix to Linux Roadshow	EDB564
Interpreting SP_SYSMON	WEB550
Backup Server Unleashed	WEB558
Securing Adaptive Server Enterprise Communications	WEB560
Advanced Performance Monitoring Tables Facility	WEB562

ASE DEVELOPMENT

I INTRODUCTORY

Fooling, Cheating, Lying and Understanding the Optimizer	WEB130
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B BUILDING

Powering Up with Adaptive Server Enterprise 15.0	EDB366
Open Client Programming Using Client-Library	IFD210
Open Server Programming	IFD310
Understanding Indexes	WEB354
Harness the Power with Configurable Parameters	WEB358
Sybase IQ: Advanced Performance and Tuning	WEB450
Using SybMigrate	WEB451
Powering Up to ASE Interim Releases	WEB452
Powering Up to ASE 15	EDB366

E EXPERT

Introduction to SQL Expert	WEB530
Behind the Scenes with DBCC Commands	WEB556
Backup Server Unleashed	WEB558
Securing Adaptive Server Enterprise Communications	WEB560

Database & Replication Servers

NEW FAST TRACK TO ADAPTIVE SERVER ENTERPRISE

An introduction to Adaptive Server Enterprise (ASE). Learn to create database objects using ANSI-standard SQL and Transact-SQL extensions. Study key features and functions of ASE including transactions and recovery, stored procedures and triggers, and SQL programming.

COURSE TOPICS: Overview of relational database concepts; using the basic components of ASE to connect to a server; Adaptive Server clients; creating tables; modifying/querying data in tables; using temporary tables and system tables; using constraints, defaults, and rules to enforce data integrity; writing Transact-SQL code with functions, variables, and control-of-flow statements; managing transactions and locking; and creating stored procedures and triggers.

WHO SHOULD ATTEND: Database Administrators, Database Designers, End-Users, SQL Developers.

PREREQUISITES: None

EDB115

DURATION:
5 Days

FORMAT:
70% Lecture
30% Lab

SKILL:
Introductory

TYPE:
Classroom,
Onsite,
SyberLearning
LIVE

NEW POWERING UP WITH ADAPTIVE SERVER ENTERPRISE 15.0

Gain hands-on experience with the newest features of Adaptive Server Enterprise version 15. The new release of ASE includes a vast array of new capabilities for administrators, SQL developers, and end users alike. Major new abilities are expected to include data partitioning, new Optimization logic, and extended support for large databases. Please note that the topic list may change by the time of General Availability.

COURSE TOPICS: Installing and upgrading to 15; data partitioning; optimization improvements; support for very large Databases; scrollable cursors; changes to statistics and monitoring; computed columns and functional indexes; more complex join and query types; cross-platform dump & load, and more.

WHO SHOULD ATTEND: Database Administrators, Performance and Tuning Specialists, Database Designers, System Analysts and Architects.

PREREQUISITES: *Fast Track to Adaptive Server Enterprise*, *System and Database Administration*, *Performance and Tuning: Configuring Adaptive Server Enterprise*.

EDB366

DURATION:
3 Days

FORMAT:
50% Lecture
50% Lab

SKILL:
Building

TYPE:
Classroom,
On Site,
SyberLearning
LIVE

NEW SYSTEM AND DATABASE ADMINISTRATION: ADAPTIVE SERVER ENTERPRISE

Effective administration of Adaptive Server Enterprise 15 means that a server is up, running, and stable. In order to get there, the server needs adequate resources (memory, disk, and CPU), realistic security policies (logins, users, roles, permissions), and a reliable maintenance schedule (backups, failure planning, monitoring and troubleshooting). Staying there requires skilled administrators that know best practices and key skills, which can be learned in this course.

COURSE TOPICS: ASE environment and installation; server configuration; resource allocation; database and device creation; drive space auto-expansion; tempdb configuration and multiple tempdbs; permissions and security; full and incremental dumps & loads; job scheduling; statistics maintenance.

WHO SHOULD ATTEND: Database Administrators, System Administrators.

PREREQUISITES: *Fast Track to Adaptive Server Enterprise* or equivalent experience.

EDB356

DURATION:
5 Days

FORMAT:
70% Lecture
30% Lab

SKILL:
Building

TYPE:
Classroom,
On Site,
SyberLearning
LIVE

NEW PERFORMANCE AND TUNING: CONFIGURING ADAPTIVE SERVER ENTERPRISE

Learn to measure the performance of Adaptive Server Enterprise 15, and tune for the specific requirements of your business. Take advantage of the monitoring and evaluation tools of ASE, and interpret their diagnoses into specific plans of action. Evaluate the effectiveness of system resources (CPU, disk, memory), and implement solutions, with an eye toward the trade-offs inherent in system performance tuning. Please note that this course will focus on the tuning of the server as a whole, not on the tuning of individual queries or applications.

COURSE TOPICS: Server configuration; page sizes; optimizing hardware usage; controlling lock behavior; cache configuration and large I/O; resource contention and the Logical Process Manager; statement cache; MDA tables; parallel configuration; application partitioning.

WHO SHOULD ATTEND: Database Administrators.

PREREQUISITES: *Fast Track to Adaptive Server Enterprise*, *System and Database Administration: Adaptive Server Enterprise*.

EDB553

DURATION:
5 Days

FORMAT:
70% Lecture
30% Lab

SKILL:
Expert

TYPE:
Classroom,
On Site,
SyberLearning
LIVE

Database & Replication Servers

EDB634

DURATION:
5 Days

FORMAT:
70% Lecture
30% Lab

SKILL:
Expert

TYPE:
Classroom,
Onsite,
SyberLearning
LIVE

PERFORMANCE AND TUNING: **NEW** ADAPTIVE SERVER ENTERPRISE QUERY OPTIMIZATION

Learn to measure the performance of T-SQL queries, and tune for the specific requirements of your business. Take advantage of the monitoring and evaluation tools of Adaptive Server Enterprise, and interpret their diagnoses into specific plans of action. Evaluate the behavior of the optimizer in ASE 15, and implement the most efficient data-change and data-retrieval T-SQL code. Please note that this course will focus on the tuning of individual queries, and not on the server as a whole.

COURSE TOPICS: Access methods for queries and data modification; costs and benefits of indexes; query optimizer, statistics, and optimization; joins and join types; parallel queries; stored procedure compilation and performance; new index and partitioning behavior; metrics, MDA monitoring, and Abstract Query Plans.

WHO SHOULD ATTEND: SQL Developers, Application Developers who use SQL code, Database Administrators and/or Sybase System Administrators who are involved in tuning queries, Performance and Tuning Specialist; any computer professional who needs an understanding of how the Sybase Query Optimization works.

PREREQUISITES: *Fast Track to Adaptive Server Enterprise.*

EDB652

DURATION:
4 Days

FORMAT:
50% Lecture
50% Lab

SKILL:
Expert

TYPE:
Classroom,
On Site,
SyberLearning
LIVE

ADVANCED ADMINISTRATION AND TROUBLESHOOTING **NEW** FOR ADAPTIVE SERVER ENTERPRISE

Learn the extended skills of server administration: what to do when hardware fails, and how to implement special-use features of Adaptive Server Enterprise 15. Practical troubleshooting techniques and disaster prevention will make ASE highly available. Special features allow for greater flexibility in migration and automating administration, server monitoring, integrated data spaces, and resource management.

COURSE TOPICS: Installation; LDAP and CIS; controlling space allocation and fragmentation; Resource Governor; dbcc for consistency checking and repair; troubleshooting backups; quiescing, mount, unmount, and server migration; device failures and Recovery Fault Isolation; troubleshooting master.

WHO SHOULD ATTEND: Database Administrators, System Administrators.

PREREQUISITES: *System and Database Administration: Adaptive Server Enterprise*

EDB557

DURATION:
4 Days

FORMAT:
50% Lecture
50% Lab

SKILL:
Expert

TYPE:
Classroom,
On Site,
SyberLearning
LIVE

TROUBLESHOOTING ADAPTIVE SERVER DATA STRUCTURES **NEW**

Gain a deeper understanding of the internals of Sybase Adaptive Server Enterprise 15 and how the database really works. Drill down to the byte level to determine exactly how pages, objects, databases, devices, and the server obtain, use, and track physical space. Use this knowledge to identify the root causes of data corruption, and to resolve a problem before it becomes a crisis.

COURSE TOPICS: Details of physical storage; space management structures (allocation pages, OAL pages, GAM pages); page types for APL and DOL tables and indexes; effects of ASE 15 partitioning on space; allocation and deallocation; DBINFO and DBTABLE; log structure, logging, and recovery; Troubleshooting and corruption fixes; use of undocumented dbcc commands.

WHO SHOULD ATTEND: Database Administrators, Performance Tuning Specialists, System Administrators with two to four years database administration experience.

PREREQUISITES: *System and Database Administration: Adaptive Server Enterprise 15.0 (EDB356)* and two to four years *database administration experience.*

EDB559

DURATION:
4 Days

FORMAT:
60% Lecture
40% Lab

SKILL:
Building

TYPE:
Classroom,
On Site,
SyberLearning
LIVE

MASTERING TRANSACT-SQL PROGRAMMING **NEW** ADVANCED TIPS & TECHNIQUES

Learn an array of tips and techniques, and stretch the boundaries of what sets T-SQL can identify and manipulate. Lecture and lab emphasis is on good coding practices, manipulating data in nonstandard ways, joins and subqueries, applied case logic, cursors, and proper stored procedure development and debugging. Combine various single-purpose solutions into complex solutions for specific needs. Please note that this is not a performance tuning class; it is a class in extending the realm of possible solutions.

COURSE TOPICS: Indexes and search arguments; joins and subqueries; CASE expression; transactions and locking; cursors and navigation; identifying and forming sets; computed columns; function-based indexes.

WHO SHOULD ATTEND: Database Administrators, SQL Developers.

PREREQUISITES: *Fast Track to Adaptive Server Enterprise* or equivalent experience.

Database & Replication Servers

FAST TRACK TO ADAPTIVE SERVER ENTERPRISE 12.5

This course provides a practical, hands-on approach to working with Sybase's Adaptive Server Enterprise database. You will learn how to construct simple and complex queries using both ANSI standard SQL and Sybase's Transact-SQL extensions, and how to create tables and manipulate data, tables and other database objects. Special features and functions of ASE, such as automatic recovery of transactions, stored procedures, triggers, and cursors are also examined. In addition, you will learn to use good programming techniques and to develop strategies for writing efficient applications.

COURSE TOPICS: Overview of relational database concepts; Adaptive Server clients - isql and SQL Advantage; creating tables; modifying data in tables; querying data in tables; improving query functionality and performance; using temporary tables and system tables; using constraints, defaults, and rules to enforce data integrity; writing Transact-SQL code with functions, variables, and control-of-flow statements; managing transactions and locking; writing stored procedures and triggers; creating and using cursors.

WHO SHOULD ATTEND: End-users, SQL Developers and Database Administrators who will be working with Adaptive Server Enterprise.

PREREQUISITES: None

EDB111

DURATION:
5 Days

FORMAT:
70% Lecture
30% Lab

SKILL:
Introductory

TYPE:
Classroom,
On Site,
SyberLearning
LIVE

SYSTEM AND DATABASE ADMINISTRATION: ADAPTIVE SERVER ENTERPRISE 12.5

This course provides you with the skills to perform the major tasks of Sybase system and database administration. You will practice administration activities using your own Adaptive Server in a safe and controlled environment. Emphasis is given to resource management (memory, disk, and CPU) with a goal of creating a reliable Adaptive Server environment. The course also presents fundamental monitoring and troubleshooting methods, as well as details about the server's locking schemes and system and user-defined roles.

COURSE TOPICS: ASE environment and installation; Reconfiguring ASE dynamically; Resource allocation; Database creation; User permissions and security; Transaction management and logging; Backing up databases and transaction logs; Database recovery and restoration; Modifying default Adaptive Server configuration; Configuring named caches and large I/Os; Connectivity issues.

WHO SHOULD ATTEND: Database Administrators, System Administrators.

PREREQUISITES: *Fast Track to Adaptive Server Enterprise (EDB111)* or equivalent experience.

EDB354

DURATION:
5 Days

FORMAT:
70% Lecture
30% Lab

SKILL:
Building

TYPE:
Classroom,
On Site,
SyberLearning
LIVE

PERFORMANCE AND TUNING: CONFIGURING ADAPTIVE SERVER ENTERPRISE 12.5

Learn how to tune an Adaptive Server for optimal performance. This course explores Adaptive Server architecture in depth, and includes designing databases for performance, managing Adaptive Server system resources (CPUs, disks, I/O), choosing appropriate locking schemes, optimizer statistics, SMP features, relevant data structures, and parallel processing considerations.

COURSE TOPICS: Dynamic reconfiguration; Using different page sizes; Tuning transaction processing for OLTP, DSS, and batch applications; Benchmarking techniques; Optimizing hardware device usage and space management; Choosing locking schemes; Configuring lock promotion at server, database, and object levels; Working with multiple engines in the SMP environment; Data and procedure cache configuration and tuning, and cache partitioning; Working with tempdb; optimizer statistics; working with parallel queries.

WHO SHOULD ATTEND: Database Administrators, Open Interface Developers, and Application Developers.

PREREQUISITES: *Fast Track to Adaptive Server Enterprise (EDB111)*, *Systems and Database Administration: Adaptive Server Enterprise 12.5 (EDB354)* or equivalent experience.

EDB551

DURATION:
5 Days

FORMAT:
70% Lecture
30% Lab

SKILL:
Expert

TYPE:
Classroom,
On Site,
SyberLearning
LIVE

ADVANCED ADMINISTRATION AND TROUBLESHOOTING FOR ADAPTIVE SERVER ENTERPRISE 12.5

Learn how to make optimal use of Adaptive Server Enterprise's administrative features and to diagnose and prevent potentially disastrous situations. Real-world benefits include learning how to perform mission-critical administrative tasks more efficiently, improving system performance for the end-users, and troubleshooting disaster scenarios to recover data. This course offers a hands-on, in-depth look at ASE by examining relevant internal data structures and proposing practical troubleshooting techniques.

COURSE TOPICS: Dynamic reconfiguration; using advanced installation techniques; troubleshooting connectivity problems; extending ASE using component integration services; managing physical devices; analyzing object allocation; managing table fragmentation; using dbcc to check consistency and to detect and resolve table fragmentation, allocation, and linkage problems; improving performance of bulkcopy and create index; troubleshooting database dumps and loads; recovering from non-master device failures; recovering from master device failures. Optional modules include accessing remote servers and remote objects.

WHO SHOULD ATTEND: Database Administrators, System Administrators.

PREREQUISITES: *System and Database Administration: Adaptive Server Enterprise 12.5 (EDB354)*.

EDB650

DURATION:
4 Days

FORMAT:
50% Lecture
50% Lab

SKILL:
Expert

TYPE:
Classroom,
On Site,
SyberLearning
LIVE

Database & Replication Servers

EDB555

DURATION:
4 Days

FORMAT:
50% Lecture
50% Lab

SKILL:
Expert

TYPE:
Classroom,
On Site,
SyberLearning
LIVE

TROUBLESHOOTING ADAPTIVE SERVER DATA STRUCTURES 12.5

Complex Problem Solving with dbcc

Gain a deeper understanding of the data structures inside Sybase Adaptive Server Enterprise (ASE) and how they are allocated and de-allocated. This expert-level course gets you “under the hood” and exposes you to in-depth technical detail. Use this knowledge to prevent potential problems from database corruption and reduce time working with Sybase Technical Support. Troubleshoot, recognize, locate, and resolve corruption problems to save time and data. Learn to read and understand the contents of the transaction log and troubleshoot full logs. Understand the implications for performance, logging, and recovery. Learn how to use Sybase utilities to troubleshoot the server. Lab time covers many dbcc commands and is used to trouble-shoot the server for various types of database corruption.

COURSE TOPICS: Details of physical storage, DBINFO, DBTABLE; Dbcc usage; Page management structures and processes (allocation pages, OAM pages, GAM pages); Data, index, control and text/image page layout for APL and DOL tables, page linkage, disk init, and dsync; Index structure; Page and extent allocation/de-allocation; Logging (how to read log pages in detail); Recovery internals; Recovery fault isolation and bypass recovery.

WHO SHOULD ATTEND: Database Administrators, Performance Tuning Specialists, System Administrators.

PREREQUISITES: *System and Database Administration: Adaptive Server Enterprise 12.5 (EDB354)* and two to four years database administration experience.

EDB631

DURATION:
5 Days

FORMAT:
70% Lecture
30% Lab

SKILL:
Expert

TYPE:
Classroom,
On Site,
SyberLearning
LIVE

PERFORMANCE AND TUNING: ADAPTIVE SERVER ENTERPRISE QUERY OPTIMIZER 12.5

Learn how to tune queries and Stored Procedures for optimal performance using the Adaptive Server Query Optimizer. Study various techniques for writing high-performance queries that allow the optimizer to use the most efficient query plan, and learn how to diagnose and correct performance problems with existing queries. Gain proficiency in interpreting and modifying optimizer statistics to improve query performance and using simulated statistics for “what if” analysis. Acquire a benchmarking tuning methodology.

COURSE TOPICS: The Adaptive Server Query Optimizer; showplan and other Sybase utilities; optimizing joins; optimizer statistics; abstract plans; tuning insert, update, and delete operations; parallel query plans; using indexes to reduce I/O; Stored Procedures.

WHO SHOULD ATTEND: Database Administrators, System Administrators, Performance and Tuning Specialists, SQL Developers, Application Developers.

PREREQUISITES: *Fast Track to Adaptive Server Enterprise (EDB111)*.

EDB550

DURATION:
4 Days

FORMAT:
60% Lecture
40% Lab

SKILL:
Expert

TYPE:
Classroom,
On Site,
SyberLearning
LIVE

MASTERING TRANSACT-SQL PROGRAMMING: ADVANCED TIPS & TECHNIQUES 12.5

Learn an array of valuable tips, techniques, and advanced topics to implement cleaner and more efficient code. Lecture and lab emphasis is on good coding practices, manipulating numbers and dates, joins and subqueries, applied case logic, cursors, and proper Stored Procedure development and debugging, as well as generalized methods for solving specific problems.

COURSE TOPICS: Indexes and Search Arguments; Joins and Subqueries; Case Expression; Transactions and Locking; Cursors; Manipulating and Formatting Data.

WHO SHOULD ATTEND: Database Administrators, SQL Developers.

PREREQUISITES: *FastTrack to Adaptive Server Enterprise (EDB111)* or equivalent experience.

SYB144

DURATION:
2 Days

FORMAT:
80% Lecture
20% Lab

SKILL:
Introductory

TYPE:
Classroom,
On Site,
SyberLearning
LIVE

LOGICAL DATABASE DESIGN

Learn to apply a consistent methodology in creating a logical database design that is based on the relational data model and conforms to formal standards of normalization. Examine techniques for gathering and analyzing business rules, using entity-relationship diagrams to capture conceptual data designs, and modeling business processes with data flow diagrams. Study the theoretical foundations of the relational data model and how to apply its principles to produce a fully normalized logical data model. On completion, you will be able to take a set of data requirements and develop a fully normalized logical data model and design.

COURSE TOPICS: Distinguishing logical database design from physical database design; using PowerDesigner to examine data models; entities, attributes, and relationships; derived and subtype entities; dependent entities; diagramming a conceptual model; converting the conceptual model to a logical model; converting many-to-many, n-ary, and recursive relationships; normalization and the relational data model; normal forms (first, second, third, Boyce-Codd, higher); when to de-normalize; and the next step—where the logical design goes from here.

WHO SHOULD ATTEND: Database Designers, Application Developers, Database Administrators.

PREREQUISITES: None

REGISTER TODAY! ONLINE: SYBASE.COM/EDUCATION **CALL:** 1-800-8-SYBASE (1-800-879-2273)

Database & Replication Servers

PHYSICAL DATABASE DESIGN

Learn how to plan and implement Adaptive Server Enterprise (ASE) tables, indexes, and data integrity to satisfy the data and processing requirements of an enterprise. Gain exposure to all major physical design principles needed to create optimal database designs on the ASE 12.0 platform. Study a formal design methodology that starts with a logical data model, and translate that into a relational representation. Both local and distributed requirements are used to design the most optimal physical implementation possible. Course material also covers parallel query processing; enhanced partition statistics updates; bi-directional scans of indexes; higher maximum number of table references; DOL locking schemes, page formats, and indexes; mixed indexes; enhanced alter table command; table-specific identity gaps; and Java in the database.

COURSE TOPICS: A review of specifying data, processing, and distributed processing requirements; optimal indexing strategies; data integrity enforcement options; optimal data object placement strategies; security and auditing considerations; database administration issues; and distributed architecture options.

WHO SHOULD ATTEND: Application Developers, Database Administrators, Database Designers.

PREREQUISITES: *Fast Track to Adaptive Server Enterprise (EDB111)* or equivalent experience; *Logical Database Design (SYB144)*.

EDB110

DURATION:
3 Days

FORMAT:
50% Lecture
50% Lab

SKILL:
Introductory

TYPE:
Classroom,
On Site,
SyberLearning
LIVE

INTRODUCTION TO SQL

An excellent entry-level course for end-users, new programmers and database administrators. Gain practical, hands-on experience writing database queries that retrieve, organize, and summarize data managed by an Adaptive Server. Learn to construct simple and complex queries using both ANSI-89 standard SQL and Transact-SQL extensions.

COURSE TOPICS: Relational database concepts; client/server architecture; simple queries (queries that retrieve all data from a given table); queries (queries that retrieve only data that matches a given condition); aggregates (simple functions that summarize data); joins (queries that retrieve data from multiple tables); subqueries.

WHO SHOULD ATTEND: End-users, prospective Database Administrators, Database Designers, Application Developers.

PREREQUISITES: None

EDB100

DURATION:
1 Day

FORMAT:
75% Lecture
25% Lab

SKILL:
Introductory

TYPE:
Classroom,
On Site, Syber-
Learning LIVE

HIGH AVAILABILITY: ADAPTIVE SERVER ENTERPRISE COMPANION SERVER

Gain an introduction to and familiarity with the implementation of Mode-2 high availability, a high availability architecture [also called distributed workloads] in which disjoint applications can run on each of the nodes of a cluster. When one node fails, the surviving node takes over its workload avoiding the "e-nightmare" of lost data access during planned or unplanned server downtime. Use Adaptive Server Enterprise 12.0's companion server functionality to provide continuous data availability during planned and unplanned outages. With a focus on installation and configuration, implement ASE on cluster subsystems and become familiar with the facilities and features used to enable database and client connection failover and failback.

COURSE TOPICS: High Availability definitions and concepts; The ASE 12.0 Companion server and its components; Installing high availability in ASE 12.0; Configuration issues Configuring companion servers

WHO SHOULD ATTEND: Database Administrators, System Administrators.

PREREQUISITES: None

EDB310

DURATION:
2 Days

FORMAT:
50% Lecture
50% Lab

SKILL:
Building

TYPE:
Classroom,
On Site,
SyberLearning
LIVE

POWERING UP WITH ADAPTIVE SERVER ENTERPRISE 12.5.2

Gain hands-on experience with the new features of Adaptive Server Enterprise (ASE) version 12.5.2. If you are upgrading from ASE versions 12.5.0.3 and/or 12.5.1, the latest features in version 12.5.2 make ASE even easier to deploy and maintain with enhanced operational scalability to support tougher workloads with fewer resources. ASE 12.5.2 ensures highest operational efficiency and throughput on the broadest range of platforms, from low-end Linux/Intel to large-scale SMP systems. Learn installation and configuration of ASE 12.5.2, cache management and performance configuration, multiple temp DBs, create and manage jobs with Job Scheduler, and the auto expansion feature. Learn the latest about ASE database backup and security, mount and unmount operations and much more.

COURSE TOPICS: ASE Certification Information; Installation & Upgrade; Cache Management; Performance Configuration; Multiple Temp DBs; Monitoring Tables; SQL Derived Tables; DBXray; Job Scheduler; Auto Expansion; Database Backup Modifications; Database Security Modifications; Maintenance Improvements; ASE Plug-in to Sybase Central; Using Sybmigrate; Mount and Unmount Operations; Compatibility Modifications.

WHO SHOULD ATTEND: Database Administrators, Performance and Tuning Specialists, Database Designers, System Analysts and Architects.

PREREQUISITES: *Powering Up with Adaptive Server Enterprise 12.5 – EDB364*; *Fast Track to Adaptive Server Enterprise – EDB111*; *System and Database Administration – EDB354*; *Performance and Tuning: Configuring Adaptive Server Enterprise – EDB551*.

EDB365

DURATION:
3 Days

FORMAT:
40% Lecture
60% Lab

SKILL:
Building

TYPE:
On Site,
SyberLearning
LIVE

Database & Replication Servers

EDB364

DURATION:
3 Days

FORMAT:
60% Lecture
40% Lab

SKILL:
Building

TYPE:
Classroom,
On Site,
SyberLearning
LIVE

POWERING UP WITH ADAPTIVE SERVER ENTERPRISE 12.5.

This course examines the new features of Adaptive Server Enterprise 12.5, including its latest interim release. It gives you a detailed analysis, and hands-on experience of new and modified commands, tuning considerations, troubleshooting tips and upgrade issues. This will enable you to evaluate the applicability of the new ASE technologies and to start planning how they'll be used in your ASE deployment.

COURSE TOPICS: Installing and upgrading to ASE 12.5; migrating data between different page-size Adaptive Servers and replicating data between Adaptive Servers; using new limits in ASE including column and row lengths; using Unichar datatypes; reconfiguring ASE dynamically; controlling access at the row level; resizing a Sybase device using a new command; allowing users to run select dbcc commands; performing backups with different compression levels; component integration services (CIS) enhancements; using Lightweight Directory Access Protocol (LDAP) to connect to ASE as an alternative to the interfaces file; using quiesce database enhancements to work with specialized storage subsystems; creating views with a union.

WHO SHOULD ATTEND: Database Administrators, Database Designers, End-Users, SQL Developers.

PREREQUISITES: Prior versions of *System and Database Administration: Adaptive Server Enterprise 12.5 (EDB354)* and *Performance and Tuning: Configuring Adaptive Server Enterprise (EDB551)* or equivalent experience.

EDB562

DURATION:
3 Days

FORMAT:
50% Lecture
50% Lab

SKILL:
Expert

TYPE:
Classroom,
On Site,
SyberLearning
LIVE

UNIX TO LINUX MIGRATION FOR ADAPTIVE SERVER ENTERPRISE

Linux is quickly becoming a mainstream operating system for businesses requiring the stability and reliability of Unix with the additional benefits of lower IT infrastructure and computing costs. Sybase has responded to this trend by certifying and supporting its products on Linux, including Sybase Adaptive Server Enterprise. This training course will show you how to assess an existing Unix or Windows NT ASE environment and migrate your production level ASE databases to a Linux environment. You will learn to prepare your Linux environment for your ASE installation and configuration, so as to properly and safely migrate your existing data to a Linux hosted Adaptive Server Enterprise database. You will then learn the management, performance enhancement and monitoring tools available to you on Linux.

COURSE TOPICS: Linux Overview; Linux Support and Ongoing Development; Preparing for Linux Migration; ASE Unix to Linux Migration Preparation; ASE Unix to Linux Migration Rollout – Operating System; ASE Unix to Linux Migration Rollout – ASE Database; Managing the Database on Linux; Managing the Database using ASE Tools; Introduction to Performance Enhancement for Linux.

WHO SHOULD ATTEND: Database Administrators, Database Developers, System Administrators.

PREREQUISITES: Fundamental working knowledge of Linux: *Fast Track to Adaptive Server Enterprise (EDB111)* and *System and Database Administration: Adaptive Server Enterprise 12.5 (EDB354)* or equivalent working experience with *Sybase Adaptive Server Enterprise*.

EDB698

DURATION:
4 Days

FORMAT:
40% Lecture
60% Lab

SKILL:
Expert

TYPE:
Classroom,
Onsite,
SyberLearning
LIVE

ADMINISTERING SYBASE IQ 12.6 FOR THE DATA WAREHOUSE NEW

This course is a combination of lectures and hands-on laboratory exercises to provide students with a working knowledge of Sybase IQ. Learn Sybase IQ architecture, concepts, and terminology while setting up, loading and maintaining a Sybase IQ database. Monitoring and troubleshooting methods, and performance and tuning of Sybase IQ will be covered. You will also create a multiplex configuration of Sybase IQ to support large query loads, as well as create tables and load data. Enhancements in Connection and Communication Parameters, Index Rebuild Capability, Emergency Recovery Option will be covered.

COURSE TOPICS: Sybase IQ Product Overview; Architecture and Terminology; Sybase IQ Environment and Installation; Creating Databases; Setting Server and Database Options; Connection and Communication Parameters; Sybase IQ Index Types and Data Types; Creating Tables and Indexes; Sybase IQ Memory Configuration; Loading Data from Files; Advanced Loading Data from Files; Loading Data Using the INSERT command; Using Sybase IQ; User Administration and Security; Transaction Management and Locking; Query Plans; Monitoring and Troubleshooting; Performance and Tuning; Backup and Recovery; Sybase IQ Multiplex Architecture; Creating A Multiplex Database; Multiplex Operations.

WHO SHOULD ATTEND: Database Administrators, System Administrators.

PREREQUISITES: Understanding of relational database concepts, including relational database design familiarity with *Structured Query Language (SQL)* and other database fundamentals, Solid 2-4 years DBA experience.

Database & Replication Servers

ADMINISTERING SYBASE IQ FOR THE DATA WAREHOUSE

Acquire a working knowledge of Sybase IQ through a combination of lecture presentations and hands-on laboratory exercises. Learn Sybase IQ architecture, concepts, and terminology while setting up, loading, and maintaining a Sybase IQ database. Course material also covers essential monitoring and trouble-shooting methods, as well as important technical information to increase the performance and tuning of Sybase IQ. Create a multiplex configuration of Sybase IQ to support large query loads, create tables, and load data.

COURSE TOPICS: Sybase IQ product overview, environment, architecture, and terminology; installing and configuring Sybase IQ; Sybase IQ index types; creating databases, tables, and indexes; Sybase IQ memory configuration; loading data into Sybase IQ; Sybase IQ operational data administration; join indexes; backup and restore; monitoring and troubleshooting; performance and tuning; creating a multiplex database; multiplex architecture; multiplex loading.

WHO SHOULD ATTEND: Database Administrators, System Administrators.

PREREQUISITES: *Fast Track to Adaptive Server Enterprise (EDB111)*, *System and Database Administration: Adaptive Server Enterprise 12.5 (EDB354)*, and two to four years database administration experience.

EDB694

DURATION:
4 Days

FORMAT:
40% Lecture
60% Lab

SKILL:
Expert

TYPE:
Classroom,
On Site,
SyberLearning
LIVE

ADAPTIVE SERVER ANYWHERE 9.0 FUNDAMENTALS

Gain an understanding of mobile and workgroup database functionality and administration. Learn how to develop and manage standalone and server databases. Insert and retrieve data; meet enterprise standards for data availability, security, consistency, and integrity. Design databases, queries, and Stored Procedures for optimal performance. New features include automating the access of remote data using proxy tables, automating tasks with schedules and events, and using the debugger to prevent or solve problems.

COURSE TOPICS: An overview of Adaptive Server Anywhere; connecting to the database; creating and using databases; database objects; manipulating data; programming interfaces overview; transaction processing; backup and recovery; security; common administration tools; Stored Procedures and triggers; automating tasks with schedules and events; performance and tuning; accessing remote data; deployment issues.

WHO SHOULD ATTEND: Database Administrators, SQL Anywhere Application Developers.

PREREQUISITES: None

IAS183

DURATION:
4 Days

FORMAT:
60% Lecture
40% Lab

SKILL:
Introductory

TYPE:
On Site,
SyberLearning
LIVE

OPEN CLIENT PROGRAMMING USING CLIENT-LIBRARY

Learn the new features and functionality in Open Client-Library 11. Client-Library enables you to write flexible, customized applications that communicate with Sybase SQL Server, Adaptive Server Enterprise or Open Server. Learn how to initialize the client/server environment, connect to a server, send static and dynamic requests to the server, and process the results – including normal and compute rows, text and image data, and cursors.

COURSE TOPICS: Client Library programming setup; Sending commands to the server; Customizing client library behavior/handling errors and messages; Handling normal rows; Getting the description for normal rows; Running Stored Procedures; Implementing Dynamic SQL; Reading and updating cursors and array binding Dynamic SQL; Reading text from a file and writing to the server; Importing and exporting bulk data.

WHO SHOULD ATTEND: Application developers, Project Managers, and Consultants who have used PowerBuilder at their sites.

PREREQUISITES: Completion of Introduction to SQL and solid knowledge of relational database concepts and SQL Server programming experience equivalent to the course *Fast Track to Adaptive Server Enterprise*. C programming experience is strongly recommended.

IFD 210

DURATION:
3 Days

FORMAT:
60% Lecture
40% Lab

SKILL:
Building

TYPE:
Classroom,
On Site,
SyberLearning
LIVE

OPEN SERVER PROGRAMMING

Learn to write flexible, customized Open Server Library 11 applications. Open Server allows you to develop middle tier server applications. Develop a Help Desk application that demonstrates the fundamental Open Server techniques including starting and stopping the server; getting information from the client; handling errors; and returning results to the client.

COURSE TOPICS: Open server structural overview; Getting Information from clients including event handlers and registered procedures; Error handling, debugging and new functionality; Returning results; Client notification; Programming for a multi-threaded environment; Overview of open server example programs and solutions.

WHO SHOULD ATTEND: Open Interface Developers.

PREREQUISITES: Completion of Introduction to SQL and *Fast Track to Adaptive Server Enterprise* or equivalent experience. C programming experience and completion of Open Client Programming Using Client-Library strongly recommended.

IFD 310

DURATION:
2 Days

FORMAT:
60% Lecture
40% Lab

SKILL:
Building

TYPE:
Classroom,
On Site,
SyberLearning
LIVE

Database & Replication Servers

EDB352

DURATION:
3 Days

FORMAT:
50% Lecture
50% Lab

SKILL:
Building

TYPE:
Classroom,
On Site,
SyberLearning
LIVE

EDB564

DURATION:
5 Days

FORMAT:
50% Lecture
50% Lab

SKILL:
Expert

TYPE:
Classroom,
On Site

FAST TRACK TO DYNAMIC ARCHIVING **NEW**

Dynamic Archive enables you to store terabytes of historical data online in less space than traditional offline archive storage. And it still costs less than conventional archive technology! In this 3-day class, you will learn how to develop and deploy powerful Dynamic Archiving solutions using Sybase products. Participate in Developer Edition hands-on labs to discover and develop a custom LiveArchive application. Learn about the LiveArchive configuration options for Sybase products and participate in hands-on labs to install, configure, and run your custom Dynamic Archiving solution. Also, learn to analyze application data growth at a module level, and learn to forecast data growth and archiving. Understand the value of monitoring data growth across a customer's enterprise using the Enterprise Dashboard.

COURSE TOPICS: Sybase Dynamic Archiving Architectural Roadmap, Introduction to the Sybase Components Used in the Architecture & Configuration of Sybase Components, Introduction to ADM Suite, Key Features of Developer Edition, AppsPack (SmartSet), SmartCheck and Benefits, Process for Creating a Custom AppsPack module for Sybase, Dynamic Archiving Console and Repository, LiveArchive for Sybase, ADM Runtime and AppsPacks, Archive Cycle: Purge Data, Post Archive Sybase Tools to Run, Trouble-shooting Techniques, Trouble-shooting Tools available on the Dataservers, Log Files, Management of Data Sources & Model Growth, Enterprise Dashboard & Database Reports, One-Day Dynamic Archiving Assessment.

WHO SHOULD ATTEND: Database Administrators, System Administrators, Dynamic Archiving and Data Warehousing Architects, Business Analysts.

PREREQUISITES: *Fast Track to ASE 12.5*, *Fast Track to Replication Server* or equivalent experience.

UNIX TO LINUX MIGRATION FAST START ROAD SHOW

Sybase and Red Hat Education are offering a road show of Integrated Enterprise training classes that help meet the diverse training needs of Sybase customers moving to Red Hat Enterprise Linux. Effective training is the key to being highly productive, and Sybase and Red Hat are pleased to bring to you an integrated curriculum. Individuals interested in taking a rapid track course to assess an existing Unix or Windows NT ASE environment and migrate production level ASE databases to a Linux environment should enroll in this class. You will learn to prepare your enterprise Linux environment for your ASE installation and configuration, so as to properly and safely migrate your existing data to a Linux hosted Adaptive Server Enterprise database. You will learn the management, performance enhancement and monitoring tools available to you for ASE and for the Red Hat Linux OS.

COURSE TOPICS: Linux Hardware, device configuration and installation; File system management; System initialization and services; User administration, network configuration, system administration tools, RPM, boot loaders and kick start; Kernel services and configuration; The X Window system; Linux troubleshooting; ASE Unix to Linux Migration Preparation; ASE Unix to Linux Migration Rollout – Operating System; ASE Unix to Linux Migration Rollout – ASE Database; Managing the Database on Linux; Managing the Database using Linux and ASE Tools; Introduction to Performance Enhancements for Linux.

WHO SHOULD ATTEND: Database Administrators, Designer/Developers, Consultants, Sales Consultants, Support Engineers, Linux and/or UNIX ASE users who understand the basics of Red Hat Linux and want to begin the process of learning more about RH Linux administration.

PREREQUISITES: Red Hat "*RHO33 Red Hat Linux Essentials*" or equivalent Linux experience; *Fast Track to Adaptive Server Enterprise (EDB111)* and *System and Database Administration (EDB354)* or equivalent working experience with Sybase ASE.

Database Server – Syberlearning Live Courses

THE FOLLOWING ARE COURSES OFFERED THROUGH SYBERLEARNING LIVE, OUR LIVE VIRTUAL CLASSROOM. THESE COURSES RANGE FROM ONE TO THREE DAYS WITH EACH DAY CONSISTING OF A SEVERAL HOUR SESSION.

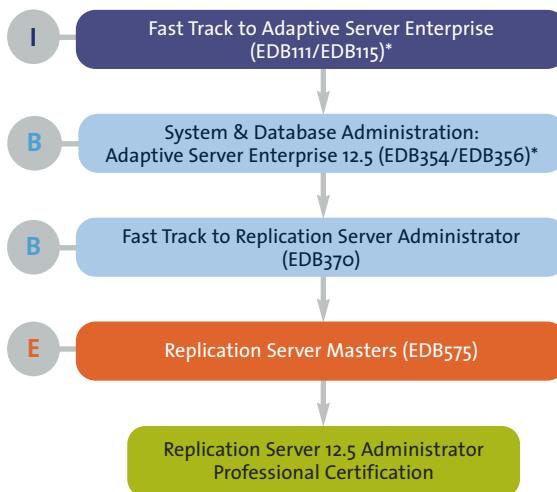
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WEB130	FOOLING, CHEATING, LYING, AND UNDERSTANDING THE OPTIMIZER
WEB354	UNDERSTANDING INDEXES
WEB358	HARNESS THE POWER WITH CONFIGURABLE PARAMETERS
WEB360	MANAGING AND TUNING TEMPDB
WEB362	USING ABSTRACT QUERY PLANS
WEB366	DYNAMIC RECONFIGURATION FOR MANAGING MEMORY
WEB368	INTERPRETING THE MAJOR ADAPTIVE SERVER ENTERPRISE SYSTEM TABLES
WEB450	SYBASE IQ: ADVANCED PERFORMANCE AND TUNING
WEB451	USING SYBMIGRATE
WEB452	POWERING UP TO ADAPTIVE SERVER ENTERPRISE INTERIM RELEASES
WEB456	IMPLEMENTING ADAPTIVE SERVER ENTERPRISE REPLICATOR
WEB530	INTRODUCTION TO SQL EXPERT
WEB550	INTERPRETING SP_SYSMON
WEB556	BEHIND THE SCENES WITH DBCC COMMANDS
WEB558	BACKUP SERVER UNLEASHED
WEB560	SECURING ADAPTIVE SERVER ENTERPRISE COMMUNICATIONS
WEB562	ADVANCED PERFORMANCE: MONITORING TABLES FACILITY

Learning Path

Replication Server Certification



* See page 11 and 13 for course description.

Additional Courses

B BUILDING

Powering Up to Replication Server 12.6	EDB372
Replication Server Performance and Tuning	WEB350

FAST TRACK TO REPLICATION SERVER ADMINISTRATION

Learn how to design, set up, and administer replication environments. Examine the fundamental differences between a state-consistent replicated data design and a distributed application data design. Learn the basic functions of Replication Server such as replication, architecture, and usage. Review administration issues, create replication definitions and subscriptions, and study materialization options, error handling, and routes. Explore general troubleshooting practices, complete a Replication Server installation, and experience the ease of setting up a basic warm standby, high availability environment. Optional material that introduces heterogeneous replication is available.

COURSE TOPICS: Fundamental data replication concepts; Replication Server system architecture; using Sybase Central and the technical library; deploying Stored Procedure replication; performing replication system modifications; implementing and maintaining warm standby; improving warm standby performance; troubleshooting common errors and exceptions; performing a Replication Server installation.

WHO SHOULD ATTEND: Database Administrators, System Administrators.

PREREQUISITES: *Fast Track to Adaptive Server Enterprise (EDB111), Systems and Database Administration: Adaptive Server Enterprise (EDB354)* or equivalent experience.

EDB370

DURATION:
5 Days

FORMAT:
55% Lecture
45% Lab

SKILL:
Building

TYPE:
Classroom,
On Site,
SyberLearning
LIVE

REPLICATION SERVER MASTERS

Recovery and Performance

Designed for Replication Server administrators who work in complex environments where performance, disaster recovery, and high availability are the greatest priority, this course addresses real-world performance and administration concerns that are encountered in today's active production environments. Learn and apply recovery techniques and performance tuning safely in a Learning Center test environment. Highly advanced topics including disaster, recovery, internals, benchmarking, performance, tuning, and peer-to-peer replication are addressed specifically—subjects that you will need to know to become a Replication Server master.

COURSE TOPICS: Reviewing Replication Server; recovering the primary database; troubleshooting the replicate database; rebuilding the stable queue; recovering the RSSD; planning for Replication Server tuning; understanding Replication Server internals; using function strings; benchmarking the Replication Server system; tuning the primary database; tuning the Replication Server; tuning the replicate connection; analyzing with monitors and counters; designing peer-to-peer replication.

WHO SHOULD ATTEND: Application Developers, Database and Replication Server Administrators, Data Warehouse Designers/Architects.

PREREQUISITES: *Fast Track To Replication Server Administration 12.5 (EDB370), System and Database Administration: Adaptive Server Enterprise 12.5 (EDB354).*

EDB575

DURATION:
4 Days

FORMAT:
55% Lecture
45% Lab

SKILL:
Expert

TYPE:
Classroom,
On Site,
SyberLearning
LIVE

NEW POWERING UP WITH REPLICATION SERVER 12.6

Designed for Replication Server administrators who are moving from a RS 12.5 environment to RS 12.6. This course covers all the new features and/or enhancements made to the latest release of Replication Server. Get the latest information about setting up and managing complex environments where performance, disaster recovery, and high availability are the greatest priority. New feature topics include: disaster, recovery, internals, benchmarking, performance, tuning, embedded RSSD, MSA, SMP, Parallel DSI, and Replication Manager.

COURSE TOPICS: New features in Replication Server 12.6, Replication Server Installation and Upgrade, Embedded RSSD, MSA, SMP, Parallel DSI, Performance Tuning, Replication Manager.

WHO SHOULD ATTEND: Database and Replication Server Administrators, System Administrators, Database and Data Warehouse, Designers/Architects, Application Developers.

PREREQUISITES: *Fast Track to Replication Server Administration 12.5 (EDB370), Fast Track to Adaptive Server Enterprise (EDB111), System and Database Administration: Adaptive Server Enterprise 12.5 (EDB354),* or working experience with *Rep Server 12.5* and *Sybase ASE 12.5.1*

EDB372

DURATION:
3 Days

FORMAT:
60% Lecture
40% Lab

SKILL:
Building

TYPE:
Classroom,
On Site,
SyberLearning
LIVE

REPLICATION SERVER PERFORMANCE AND TUNING

Study the components of Replication Server and how they work together. Learn how to tune a Replication Server for optimal performance, and how to diagnose and discover potential solutions for Replication Server performance problems. Examine data replication, Replication Server threads, and libraries. Learn how to tune the primary database, the replicate database, and the Replication Server and its RSSD database.

COURSE TOPICS: Replication Server threads and processes; the new monitors and counters; Replication Server configuration options; and a performance and tuning case study.

WHO SHOULD ATTEND: Application Developers, Database and Replication Server Administrators, Data Warehouse Designers/Architects.

PREREQUISITES: *Fast Track to Replication Server Administration 12.5 (EDB370)* or equivalent experience.

WEB350

DURATION:
2 Sessions
2.5 Hours Each

FORMAT:
Lecture only

SKILL:
Building

TYPE:
SyberLearning
LIVE

Learning Path

Sybase Linux Curriculum

E Unix to Linux Migration for Adaptive Server Enterprise (EDB562)

Individual Classes or Full Red Hat Bundles

JUMP START:	
CERTIFICATION GOAL: RED HAT CERTIFIED TECHNICIAN (RHCT)	
Red Hat Linux Essentials	RH033
Red Hat Linux System Administration & RHCT Exam	RH133
B	
MIDWAY:	
CERTIFICATION GOAL: RED HAT CERTIFIED ENGINEER (RHCE)	
Red Hat Linux System Administration & RHCT Exam	RH133
Red Hat Linux Networking & Security Administration	RH253
Certification Lab Exam	RH302
WORKS BUNDLE:	
CERTIFICATION GOAL: RED HAT CERTIFIED ENGINEER (RHCE)	
Red Hat Linux Essentials	RH033
Red Hat Linux System Administration & RHCT Exam	RH133
Red Hat Linux Networking & Security Administration	RH253
RHCE Certification Lab Exam	RH302
PREMIER BUNDLE:	
CERTIFICATION GOAL: RED HAT CERTIFIED ENGINEER (RHCE)	
Red Hat Linux Essentials	RH033
Red Hat Linux System Administration & RHCT Exam	RH133
Red Hat Linux Networking & Security Administration	RH253
Linux Rapid Track Course with RHCE exam	RH300

Other Red Hat Course Offerings

Red Hat Linux Programming Essentials	RHD143
Red Hat Enterprise Deployment and Systems Administration	RH401
Red Hat Linux Device Drivers	RHD221
Red Hat Linux Kernel Internals	RHD236
Red Hat Enterprise Security: Network Services	RHS333
Developing Red Hat Firewall Solutions	RHS342
Red Hat Linux Rapid Track Course	RH301
Red Hat Enterprise Directory Services & Authentication	RH423
RED HAT CERTIFIED ARCHITECT COURSES:	
Red Hat Enterprise Security: Network Services	RHS333
Red Hat Linux Enterprise Deployment and Systems Management	RH401
Red Hat Linux Enterprise Directory Services and Authentication	RH423
Red Hat Enterprise Storage Management	RH436
Red Hat Enterprise System Monitoring and Performance Tuning	RH442
PREMIER BUNDLE:	
CERTIFICATION GOAL: RED HAT CERTIFIED ENGINEER (RHCE)	
Red Hat Linux Essentials	RH033
Red Hat Linux System Administration & RHCT Exam	RH133
Red Hat Linux Networking & Security Administration	RH253
Linux Rapid Track Course with RHCE exam	RH300

For Complete Course Descriptions Please go to
<http://www.sybase.com/education/coursecatalog/linux/linux>

Data/Business Process Modeling

Courses Offered

I INTRODUCTORY

Physical Database Design	EDB110*
Logical Database Design	SYB144*

B BUILDING

Business Process Modeling with PowerDesigner 11	DEV322
Data Modeling with PowerDesigner 10	DEV324
Data Modeling with PowerDesigner 11	DEV325
Object-Oriented Modeling with PowerDesigner 11	DEV337

* See pages 14 & 15 for course descriptions.

DEV325

DURATION:
3 Days

FORMAT:
40% Lecture
60% Lab

SKILL:
Building

TYPE:
Classroom,
Onsite,
SyberLearning
LIVE

DATA MODELING WITH POWERDESIGNER 11 **NEW**

Information Systems that perform well are based on well-designed databases developed from a complete and accurate model of the data. In this three-day course, learn how PowerDesigner 11 can be used as a tool during the data analysis, data modeling, and database design processes. A well-known “best practice” in Information Engineering (IE) is to model the information at both a conceptual and physical level. Use PowerDesigner to create a conceptual data model with entities, attributes, and relationships. Learn to target a DBMS, generate and enhance a physical data model, and then generate a database creation script for database tables, indexes, views, triggers, and stored procedures. Explore the reverse engineering features of PowerDesigner to create physical, conceptual, and object-oriented models from an existing database, as well as learn iterative modeling by using compare and merge model features and synchronizing physical data models with corresponding databases and vice versa. Finally, learn how to use and manage the Enterprise Repository for storing and sharing enterprise models across disparate groups and locations.

COURSE TOPICS: Introduction to data modeling with PowerDesigner; Using the PowerDesigner modeling environment; Creating and managing a conceptual data model; Defining business rules; Creating data items, entities, and entity attributes; Creating and defining relationships; Cardinality; Dependency; Roles; Existence; Defining and using domains and inheritance; Generating a physical data model; Transforming CDM objects to PDM objects; Customizing the physical data model; Creating views, alternate keys, and indexes; Creating the database script; Protecting data through triggers, procedures, views, and business rules; Reverse engineering databases; Model management techniques; Physical data model synchronization; Working with packages and diagrams; Working with the Enterprise Repository; Creating reports.

WHO SHOULD ATTEND: Data analysts, Data modelers, Database administrators, Systems analysts, Application Developers with data modeling responsibilities.

PREREQUISITES: Experience using *Microsoft Windows™* or another graphical user interface, Understanding of relational database concepts and database implementation issues, Exposure to entity relationship (ER) data modeling and data normalization.

Data/Business Process Modeling

DATA MODELING WITH POWERDESIGNER 10

Information Systems that perform well are based on well-designed databases developed from a complete and accurate model of the data. In this three-day course, learn how PowerDesigner 10 can be used as a tool during the data analysis, data modeling, and database design processes. A well-known "best practice" in Information Engineering (IE) is to model the information at both a conceptual and physical level. Use PowerDesigner to create a conceptual data model with entities, attributes, and relationships. Learn to target a DBMS, generate and enhance a physical data model, and then generate a database creation script for database tables, indexes, views, triggers, and stored procedures. Explore the reverse engineering features of PowerDesigner to create physical, conceptual, and object-oriented models from an existing database, as well as learn iterative modeling by using compare and merge model features and synchronizing physical data models with corresponding databases and vice versa. Finally, learn how to use and manage the Enterprise Repository for storing and sharing enterprise models across disparate groups and locations.

COURSE TOPICS: Introduction to data modeling with PowerDesigner; Using the PowerDesigner modeling environment; Creating and managing a conceptual data model; Defining business rules; Creating data items, entities, and entity attributes; Creating and defining relationships; Defining and using domains and inheritance; Generating a physical data model; Transforming CDM objects to PDM objects; Customizing the physical data model; Creating views, alternate keys, and indexes; Creating the database script; Protecting data through triggers, procedures, views, and business rules; Reverse engineering databases; Model management techniques; Physical data model synchronization; Working with packages and diagrams; Working with the Enterprise Repository; Creating reports.

WHO SHOULD ATTEND: Data analysts, Data modelers, Database administrators, Systems analysts, Application Developers with data modeling responsibilities.

PREREQUISITES: *Logical Database Design (SYB144)*.

DEV324

DURATION:
3 Days

FORMAT:
40% Lecture
60% Lab

SKILL:
Building

TYPE:
Classroom,
On Site,
SyberLearning
LIVE

OBJECT-ORIENTED MODELING WITH POWERDESIGNER 11.0

Reconcile Object Models with Relational Database Designs

Learn to use PowerDesigner to model object-oriented systems and interface these systems with a relational database. From existing specifications, you will use PowerDesigner to create an object-oriented model using UML notation. Explore the reverse engineering and code generating features of PowerDesigner to create various software objects, generate conceptual and physical data models, and share models.

COURSE TOPICS: Modern System Development Architectures. System Architecture Partitions: System Architecture Layers; Distributed Computing Environments; The Unified Modeling Language (UML). Object-Oriented Modeling: Differences between Analysis and Design; Classes, Objects, and Instances; Object-Oriented Analysis Overview; Other Object-Oriented Concepts; Object Relationships. Creating and Managing Object Models in PowerDesigner: Managing the PowerDesigner environment; Defining Packages and Business Rules; Defining and using Domains; Creating and Maintaining UML Use-Cases in PowerDesigner: Defining Use-Cases; Discovering Classes with Use-Case Discovery Techniques. Creating Classes: Creating Attributes, Identifiers, Operations, and Interfaces; Creating and Using Interfaces with Java. Relationships in PowerDesigner: Associations and Inner Classes; Aggregation and Composition. PowerDesigner Tool Options. Object Languages Overview: Languages Supported; PowerBuilder Capabilities; Java Considerations; Other Languages Supported. Creating Sequence Diagrams: How to Create Sequence Diagrams; Using Sequence Diagrams to Model Complex Interactions. Moving to the Conceptual and Physical Models: Conceptual Mapping between Model Types; Differences Between Object Modeling and Data Modeling; Generating Conceptual Data Models and Physical Data Models. Reverse Engineering: PowerBuilder User Objects; Java Objects; Java Source and Byte Code; Other Languages Supported. Storing Objects In The Database.

WHO SHOULD ATTEND: This course is designed for individuals who are responsible for designing, implementing, and managing relational databases, including: Experienced data analysts; Data modelers; Database administrators; Object-oriented software developers; Object architects.

PREREQUISITES: Experience using Microsoft Windows or another graphical user interface; Knowledge of basic object-oriented concepts and relational database concepts; Exposure to entity relationship (ER) data modeling and data normalization; Hands-on experience with PowerBuilder, Java, or any other language supported by PowerDesigner.

DEV337

DURATION:
2 Days

FORMAT:
65% Lecture
35% Lab

SKILL:
Building

TYPE:
Classroom,
On Site,
SyberLearning
LIVE

NEW BUSINESS PROCESS MODELING USING POWERDESIGNER 11

Learn to use PowerDesigner to perform business process modeling. Learn why business processing is so important today. From existing specifications, you will use PowerDesigner 11 to create business process models, including models of composite and underlying processes. You will use the model checking features of PowerDesigner to validate the integrity of your model. You will generate EBxml Business Process Specification Schemas and use reverse engineering of EBxml. You will also learn to create reports from your models and how Business Process Modeling integrates with the other model types in PowerDesigner.

COURSE TOPICS: Introduction to PowerDesigner and Process Modeling; The PowerDesigner Business Process Model; Designing a Business Process; Working with the BPM; Moving To Other PowerDesigner Models.

WHO SHOULD ATTEND: Business Analysts, Business Modelers, Business Area Experts, Data analysts.

PREREQUISITES: Experience using *Microsoft Windows™* or another graphical user interface, Exposure to basic business process modeling concepts, Exposure to flow charting or process modeling techniques, entity relationship (ER) modeling.

DEV322

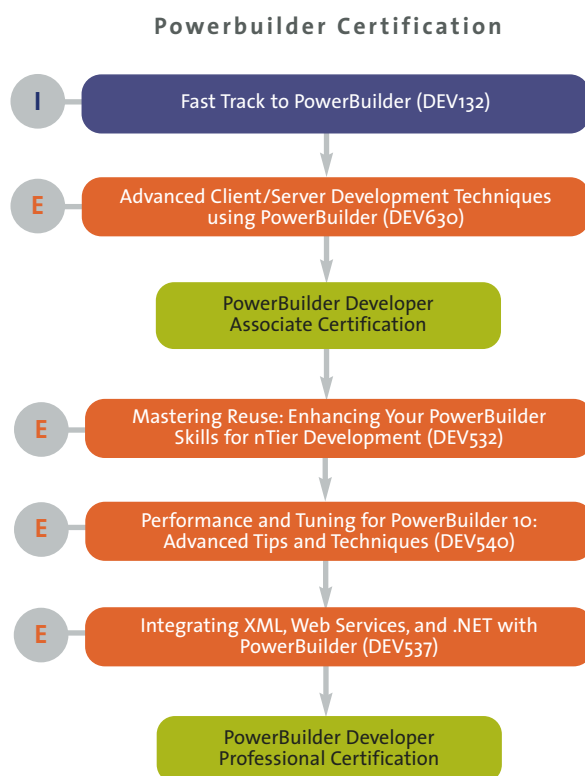
DURATION:
1 Day

FORMAT:
65% Lecture
35% Lab

SKILL:
Building

TYPE:
Classroom,
On Site,
SyberLearning
LIVE

Learning Path



Additional Courses

I INTRODUCTORY

Fast Track to PowerBuilder 8	DEV111
Fast Track to PowerBuilder 9	DEV119
Reporting with InfoMaker	DEV130
Migrating PowerBuilder Client/Server Applications to the Web	WEB132

B BUILDING

Building Enterprise Wireless Applications Using PocketBuilder	DEV333
Moving to PowerBuilder 9	DEV334
Building Object-Oriented Applications with PowerBuilder	DEV335
Building .NET Applications using Sybase DataWindow.NET	DEV336
Using the DataWindow Object in PowerBuilder 8	DEV431
Advanced PowerBuilder Controls	DEV436
Building Applications with PowerBuilder and EAServer	DEV440
Accelerating Enterprise Web Application Development	DEV442
New Features of PowerBuilder 9	WEB333

E EXPERT

Building Applications Using PowerBuilder Foundation Classes	DEV531
Moving to PowerBuilder 10	DEV534
Mastering the DataWindow Object in PowerBuilder 9	DEV542

NEW FAST TRACK TO POWERBUILDER

Learn to use the core features and development IDE of PowerBuilder to build and deploy a fully-functional application using object-oriented programming techniques and application partitioning. This course addresses development techniques across PowerBuilder versions 8.0, 9.0 and 10.0 and will help you get started on your projects more quickly and efficiently by helping you learn best practices for PowerBuilder development. Hands-on lab exercises can be performed in class on any one of the three versions of PowerBuilder, so as to reinforce the learning objectives for this course that meet your version requirement.

COURSE TOPICS: Introduction to PowerBuilder IDE; Building a Window; Scripting; Object Orientation in PowerBuilder; Non-Visual User Objects; Database Painter; DataWindow Objects – Building the Result Set (SQL); DataWindow Objects – Enhancing the Report; Connecting to the Database, Transaction Objects; MDI Applications; Menus; using DataWindow Controls; DataWindow Internals; Modify, Insert & Delete; saving Data to the Database; introduction to N-Tier Programming and the Web; Unicode conversion from DBCS; Memory Management; PB Cryptography; supporting and upgrading – Migrating from PowerBuilder 6.x, 7, 8, and 9 to version 10; Application Modeling with the PowerDesigner Plug-In; XML Web DataWindow and JSP 2.0; Web Services: UDDI Browsing, deploying a PB NVO directly from PB as a Web SVC, building Web Services Clients; building Section 508c Accessibility Compliant Windows; belivering the Completed Application.

WHO SHOULD ATTEND: Application Developers, Web Developers.

PREREQUISITES: None

DEV132

DURATION:
5 Days

FORMAT:
40% Lecture
60% Lab

SKILL:
Introductory

TYPE:
Classroom,
On Site,
SyberLearning
LIVE

MOVING TO POWERBUILDER 10

This hands-on course is for experienced PowerBuilder developers who want to utilize & understand the new features added to PowerBuilder 10 for client/server, component, web client and web service development. Learn to use the new features of PowerBuilder 10 to migrate an existing PowerBuilder Power Script-based application from a previous version of PowerBuilder. Use an EAServer utility program to migrate a PowerDynamo web site into a JSP web site. Create and deploy a PowerBuilder non-visual object (NVO) from within the PowerBuilder IDE into EAServer and expose it as a Web Service, as well as build your own UDDI browser. Create, configure and deploy an XML DataWindow as part of a JSP target application. Using reverse engineering techniques, you will reverse engineer an existing PowerBuilder application into a PowerDesigner Object Model, make changes to the model and regenerate and you're your PowerBuilder Objects. Using the internationalization features of PowerBuilder 10, you will use Unicode characters to internationalize a GUI. Lastly, to facilitate handicapped users you will transform a non-508c accessible window and DataWindow to a 508c compliant application window. Many of these significant new features are reinforced in practical lab exercises.

COURSE TOPICS: Core PB New Features; Unicode conversion from DBCS; Section 508 accessibility; new Language features; new Database Drivers; new Client Server Features; GUI Enhancements; Memory Management; PB Cryptography; migrating from PowerBuilder 6.x, 7, 8, and 9 to version 10; Application Modeling with the PowerDesigner Plug-In; building Section 508c Accessibility Compliant Windows; Web Target New Features: XML Web DataWindow and JSP 2.0; Web Service Enhancements: UDDI Browsing, Deploying a PB NVO directly from PB as a Web SVC, Building Web Services Clients.

WHO SHOULD ATTEND: Experienced PowerBuilder Developers, Web Developers who use PowerBuilder.

PREREQUISITES: *Fast Track to PowerBuilder 9.0* or *Moving to PowerBuilder 9.0*; *Building Applications with PowerBuilder and EAServer* or equivalent; *Mastering Enterprise DataWindows: Advanced Techniques in Data Driven Development* or equivalent; Experience with the *PowerBuilder 8* and/or *9 IDE*.

DEV534

DURATION:
2 Days

FORMAT:
50% Lecture
50% Lab

SKILL:
Introductory

TYPE:
Classroom,
On Site,
SyberLearning
LIVE

DEV630

DURATION:
5 Days

FORMAT:
50% Lecture
50% Lab

SKILL:
Expert

TYPE:
Classroom,
On Site,
SyberLearning
LIVE

ADVANCED CLIENT/SERVER DEVELOPMENT TECHNIQUES USING POWERBUILDER 10 **NEW**

Learn to use PowerBuilder 10.0 to build and deploy a fully functional application using object-oriented programming techniques and application partitioning to meet the business requirements of a case study. This course will help you get started on your projects more quickly and efficiently. By helping you learn best practices for PowerBuilder development from an advanced client/server developers perspective. Focused on a selection of complex and advanced-level topics, you get hands-on, instructor-led training that takes you out of your fast-paced environment to let you concentrate on improving your skills without distractions. You'll be in class with certified instructors as well as other PowerBuilder client/server developer professionals like yourself looking to learn the more advanced and powerful features of PowerBuilder, so as to immediately apply new skills to your more complex Client/Server projects.

COURSE TOPICS: Implementing Simple GUI Controls; Working with the Rich Text Edit Control; Advanced Tree View Control Techniques; Implementing List View Controls; Designing and Scripting Popup Menus; Adding Drag and Drop Functionality; Many Uses of Tab Controls; Embedding OLE Controls into your Application; Building and Scripting Child DataWindows; Accessing Enterprise Data; Accessing DataWindow Object Properties; Moving Data; Validating Data Entry; Advanced Updating Techniques; Scripting Dynamic DataWindows; Ad Hoc Reporting Techniques; DataStores and Sharing ResultSets; Working with DataWindow Class: Effective Partitioning Techniques; Exception Handling; XML DataWindows; Web Enabling DataWindows.

WHO SHOULD ATTEND: Developers Using PowerBuilder 7-10 who want to learn advanced features and/or become certified or renew their certification C/S Developers Using PowerBuilder.

PREREQUISITES: *Fast Track to PowerBuilder (DEV132)* or equivalent work experience.

DEV532

DURATION:
5 Days

FORMAT:
50% Lecture
50% Lab

SKILL:
Expert

TYPE:
Classroom,
On Site,
SyberLearning
LIVE

MASTERING REUSE: ENHANCING YOUR POWERBUILDER SKILLS FOR NTIER DEVELOPMENT **NEW**

An intensive week of multi-tiered enterprise level coding using the PowerBuilder 8, 9, and 10. Learn to develop PowerBuilder centric, enterprise level, multi-tiered, partitioned applications accessible from the browser, Web Services, and PB Application clients. It is assumed that you are familiar with the fundamentals of the Java language as presented in our *FastTrack to Java*. It is also assumed that you are familiar with PowerBuilder Datastores, Custom Class User Objects and the rules of well formed XML.

COURSE TOPICS: Enterprise Technologies, CORBA, EJB & Web Services; Browser Technologies; Web Tier Technologies; Design Patterns; Introduction to EAServer – Enterprise & Web Tiers; Configuring Services; Command Line configuration – JagTool & JagAnt; PB Component Architectures – Server side view; Standard Component API; Accessing Server Services, Data Access & Transaction Management; Shared and Service Component API; Exposing PB components as Web Services and EJBs; PB Component Architecture - Client side API; CORBA component client; Web Service client; EJB component client; Web App Fundamentals; J2EE Web App Fundamentals; Coding Web apps in the PB IDE; Deployment considerations; EAS Component access – client API; Web DataWindows; DataWindow Container Components; Internals, Tricks & Tips; Web Target 4GL Framework; Overview and Server Object API; Web DataWindow Server Side Events.

WHO SHOULD ATTEND: Developers Using PowerBuilder 8-10 who want to learn advanced features and/or become certified or renew their certification; n-Tier and Web Developers Using PowerBuilder.

PREREQUISITES: *Fast Track to PowerBuilder (DEV132)* or equivalent work experience, *Fast Track to Java (DEV144)*.

DEV540

DURATION:
5 Days

FORMAT:
50% Lecture
50% Lab

SKILL:
Expert

TYPE:
Classroom,
Onsite,
SyberLearning
LIVE

PERFORMANCE AND TUNING FOR POWERBUILDER 10: ADVANCED TIPS AND TECHNIQUES **NEW**

This course covers advanced performance enhancing techniques and procedures to mature PowerBuilder developers. Learn how to improve your application performance using proven techniques for client/server based technologies. There will also be a shift in focus to certain performance improvement techniques for developers writing or migrating to web-enabled applications. You will learn about handling XML with the PBDOM, file management, database technologies, scripting tips, and must-know internal mechanisms of PowerBuilder 8, 9 and 10. Other topics include: Processing File References, Environment and Garbage Collection Functions, Scripting External Functions, Sending Objects the Message, Mail Enabling your Application, Creating Service Classes, Coding Object Instantiation, Improving Script Execution, Profiling your Application, Data Retrieval and Advanced Connectivity, Managing the Transaction, Advanced Embedded SQL and Update Stored Procedures, and much more...

COURSE TOPICS: Processing File References; The Environment and Garbage Collection Functions; Scripting External Functions; Sending Objects the Message; Mail Enabling your Application; Creating Service Classes; Handling XML with PBDOM; Working with XHTML, XML, PDF and XSLFO; Performance and Tuning Techniques; Scripting Tips and Techniques; Coding Object Instantiation; Improving Script Execution; Profiling your Application; Improving Performance with Data Management; Data Retrieval; Advanced Connectivity; Managing the Transaction; Advanced Embedded SQL and Update Stored Procedures; Design and Build Techniques; Resolving Build and Deploy Issues; Working with ORCA Script; Building and Designing Applications using the PowerDesigner Plug-in.

WHO SHOULD ATTEND: Developers Using PowerBuilder 8-10 who want to learn advanced performance techniques and/or become certified or renew their certification; C/S or Web Developers Using PowerBuilder

PREREQUISITES: *Fast Track to PowerBuilder 10.0 (DEV 132)* or equivalent work experience.

NEW BUILDING .NET APPLICATIONS USING SYBASE DATAWINDOW.NET

Learn to use DataWindow.NET to simplify the access, manipulation and presentation of data within applications built in a .NET environment using C# or Visual Basic. You will access and explore the properties of the Sybase DataWindow object and become expert at managing transaction and concurrency issues typical of database-driven applications. Learn how to dynamically create DataWindows and dynamically change the behavior of DataWindows. Other valuable topics include: how to access, validate, and update data; how to use DataStores; explore distributed programming techniques for synchronizing data. All labs and examples are developed in C#.

COURSE TOPICS: Sharing Data Using DataStores; Updating Data; Accessing Data; Accessing Properties; Handling DataWindow Errors; Validating Data; Managing Transactions; Creating DataWindows Dynamically; Adhoc Reporting Techniques; Using DataStores in a distributed environment.

WHO SHOULD ATTEND: Application Developers, Project Managers, Web Developers.

PREREQUISITES: Programming experience in C# or Visual Basic

DEV336

DURATION:
3 Days

FORMAT:
40% Lecture
60% Lab

SKILL:
Building

TYPE:
Classroom,
On Site,
SyberLearning
LIVE

FAST TRACK TO POWERBUILDER 9.0: DEVELOPING ROBUST APPLICATIONS USING POWERBUILDER

Please see DEV132, our new consolidated Fast Track class for PowerBuilder 8, 9 and 10 developers.

DEV119

MOVING TO POWERBUILDER 9.0

Learn to develop browser-based, thin-client applications using the latest technologies in PowerBuilder 9.0. Study how to transfer data in XML streams in business-to-business (B2B) applications from within the familiar environment of the DataWindow, and get the tools you need to interface XML documents and Web services. Create Web targets based on the open standards embraced in J2EE Java Server Pages (JSPs). Work with PowerBuilder in a team environment using the new compliancy for source code control (SCC) feature. Discover how easy JSP targets are to create, and use the familiar WYSIWYG editor. Work with the new 4GL JSP page and see how the functionality of the 4GL Web page has been extended with this new feature.

COURSE TOPICS: Migrating your application to PowerBuilder 9.0; The XML DataWindow; PBDOM classes; JSP targets and JSPs; JSP server-side coding with the Web target; object model; Web services development from PowerBuilder; PowerBuilder applications as clients to Web services; SCC.

WHO SHOULD ATTEND: Application Developers, Web Developers.

PREREQUISITES: *Fast Track to PowerBuilder 8.0 (DEV111)* or equivalent experience.

DEV334

DURATION:
2 Days

FORMAT:
50% Lecture
50% Lab

SKILL:
Building

TYPE:
Classroom,
On Site,
SyberLearning
LIVE

FAST TRACK TO POWERBUILDER 8

Please see DEV132, our new consolidated Fast Track class for PowerBuilder 8, 9 and 10 developers.

DEV111

ADVANCED POWERBUILDER CONTROLS

Maximize your use of the many features and controls in PowerBuilder to create more efficient and effective applications leveraging familiar, industry-standard user interface paradigms. Explore in detail the purpose, mechanics, and internals of Windows desktop feature-rich controls. Identify the appropriate use of each control and learn how to take advantage of many external components to develop an intuitive user interface and a usable, high-performance application.

COURSE TOPICS: Identifying the appropriate use of each control; using a Tab control; creating a Tab control dynamically; using a ListView control; using a TreeView control; using the Rich Text DataWindow presentation style; using a RichTextEdit control; using an OLE control with an ActiveX; using the OLE DataWindow presentation style; DataWindow presentation styles.

WHO SHOULD ATTEND: Experienced PowerBuilder Programmers.

PREREQUISITES: *Fast Track: Developing Robust Applications Using PowerBuilder (DEV119)*

DEV436

DURATION:
2 Days

FORMAT:
60% Lecture
40% Lab

SKILL:
Building

TYPE:
Classroom,
On Site,
SyberLearning
LIVE

Application Development

DEV542

DURATION:
3 Days

FORMAT:
40% Lecture
60% Lab

SKILL:
Expert

TYPE:
Classroom,
On Site,
SyberLearning
LIVE

MASTERING THE DATAWINDOW OBJECT IN POWERBUILDER 9

Learn the essentials and more advanced features of the PowerBuilder DataWindow 9.0 technology – the core of PowerBuilder. Explore the internals of DataWindows and program the DataWindow, applying complex scripting and property manipulation techniques that are used in real-world applications. Utilize the best-practices scripting model to develop DataWindows and data stores to generate XML documents, program data pipelines, and manipulate small to large databases. Code Web-enabled DataWindows through Java Server Page (JSP) technology and deploy new data-driven applications to an application server such as Enterprise Application Server (EAServer). Lab-intensive hands-on exercises enhance existing PowerBuilder skills and highlight best practices and complex techniques that can be applied to data-driven applications.

COURSE TOPICS: Sharing data using data stores; updating data; accessing data; accessing properties; using the SML DataWindow; programming the data pipeline; handling DataWindow errors; validating data; managing transactions; creating DataWindows dynamically; ad-hoc reporting techniques; using data stores in a distributed environment; using the Web DataWindow from a Web client; and deploying the Web DataWindow container to create an EAServer component with DataWindow presentation and methods.

WHO SHOULD ATTEND: Application Developers, Consultants, Project Managers.

PREREQUISITES: *Fast Track: Developing Robust Applications Using PowerBuilder 9.0 (DEV119)*

DEV440

DURATION:
3 Days

FORMAT:
50% Lecture
50% Lab

SKILL:
Building

TYPE:
On Site,
SyberLearning
LIVE

BUILDING APPLICATIONS WITH POWERBUILDER AND EASERVER

Develop middle-tier components and OLTP applications using PowerBuilder 8 for deployment to an application component transaction server (CTS) such as Enterprise Application Server (EAServer) 4.X. Learn how to develop robust applications using PowerDynamo, Sybase's dynamic page server, and EAServer's CTS. Set up and connect to EAServer CTS, and build, deploy, manage, and debug components created primarily in PowerBuilder. Also learn how to access CORBA and EJB components from PowerBuilder clients.

COURSE TOPICS: Distributed architecture; EAServer overview and positioning; exception handling; creating the first PowerBuilder/EAServer application; managing the component lifecycle; processing database information; managing transactions; upgrading objects to EAServer components; working with HTML clients; working with shared components; and working with EJB clients (optional).

WHO SHOULD ATTEND: Application Developers.

PREREQUISITES: *Fast Track: Developing Robust Applications Using PowerBuilder (DEV119)* or *Fast Track to PowerBuilder 8.0 (DEV111)*

DEV537

DURATION:
2 Days

FORMAT:
50% Lecture
50% Lab

SKILL:
Expert

TYPE:
Classroom,
On Site,
SyberLearning
LIVE

INTEGRATING XML, WEB SERVICES, AND .NET WITH POWERBUILDER

PowerBuilder 9.0 enables you to build the next generation of Web applications that can be accessed from anywhere and integrated easily with disparate architectural frameworks using XML. Examine these new technologies and their integration with PowerBuilder applications, including XML Web services, simple object access protocol (SOAP), Web services description language (WSDL), UDDI, and .NET. Learn how to communicate with Web services in a PowerBuilder program or from a Java Server Page (JSP) created in PowerBuilder, and how to use the Web Services Toolkit provided with Enterprise Application Server (EAServer) to expose your PowerBuilder NVOs as Web services. Discover how business logic deployed as .NET or Web services can be used in PowerBuilder clients as easily as distributed functions.

COURSE TOPICS: Creating XML documents—the foundation for e-business communication; describing data using DTDs and schemas; using cascading style sheets and XSL to control the display of XML documents; using PowerBuilder XML DataWindow painter techniques; scripting the XML DataWindow from PowerShell; interpreting XML in PowerShell using the PBDOM custom classes; understanding Web services architecture; building PowerBuilder custom classes to be used as Web services; finding Web services with the UDDI registry; using PowerBuilder as a consumer of Web services; creating a JSP in PowerBuilder that consumes Web services; and accessing .NET services in PowerBuilder applications.

WHO SHOULD ATTEND: Application Developers.

PREREQUISITES: *Fast Track: Developing Robust Applications Using PowerBuilder (DEV119)*, *Mastering the DataWindow Object in PowerBuilder 9.0 (DEV542)*; *experience creating and using custom classes in PowerBuilder (NVOs)* as covered in *Building Object-Oriented Applications in PowerBuilder (DEV335)*

DEV130

DURATION:
3 Days

FORMAT:
35% Lecture
65% Lab

SKILL:
Introductory

TYPE:
Classroom,
On Site,
SyberLearning
LIVE

REPORTING WITH INFOMAKER

In this intensive hands-on course, you will learn to use the Query and Report painters in InfoMaker. practice the skills needed to develop queries, reports, and graphs with InfoMaker. Configure the InfoMaker environment, and create an executable form of your report for distribution to others in your company.

COURSE TOPICS: An overview of InfoMaker; InfoMaker painters; client/server environment; report components, creating a simple report; adding objects to a report; creating a report from multiple tables; custom reporting; filtering, sorting, and grouping; report options; creating a query; working with graphs and crosstabs; managing objects.

WHO SHOULD ATTEND: Business Analysts, Data and Information Professionals, Managers, Strategic Planners, Support Staff.

PREREQUISITES: Basic computing skills and experience

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MIGRATING POWERBUILDER CLIENT/SERVER APPLICATIONS TO THE WEB

Make educated decisions regarding the future growth and direction of your PowerBuilder-based applications software. Understand the costs and trade-offs present in migrating a client/server application to the web. The course presents an in-depth overview of the issues and approaches to migrating PowerBuilder client/server applications for use on the Internet. It gives decision makers the knowledge to evaluate risk/cost factors inherent in the process. Issues discussed include; migration, web application architectures, how to evaluate an applications "migrate-ability", GUI and architectural differences, leveraging your current PowerBuilder investment, security, and partner solutions and products.

COURSE TOPICS: Why Migrate; Web Application Architectures; is Java necessary? How to evaluate an applications "Migrateability"; Personnel Issues; GUI Differences; Architectural Differences; Leveraging your current PB investment; Performance Criteria Security Issues; Partner Solutions and Products.

WHO SHOULD ATTEND: IT Managers, System Analysts, Project Leads, Application Developers, and Web Developers involved in the application migration decision making process.

PREREQUISITES: An understanding of the PowerBuilder software development process. The World Wide Web Internet environment.

WEB132

DURATION:
1 Session
3 Hours

FORMAT:
100% Lecture

SKILL:
Introductory

TYPE:
SyberLearning
LIVE

BUILDING WIRELESS ENTERPRISE APPLICATIONS USING POCKETBUILDER

PocketBuilder can be used to create sophisticated data-driven applications for the Pocket PC. Learn how to access and update enterprise data from a mobile device without requiring a wireless network connection. Design and build an application that uses Adaptive Server Anywhere and MobiLink synchronization. practice techniques for connecting PocketBuilder applications to your ASA database using the DataWindow, and synchronize your mobile database application with your enterprise servers. Also learn how to refresh your Pocket PC device with specific subsets of corporate data for disconnected use, and the steps for deploying your database and applications to a Pocket PC device.

COURSE TOPICS: PocketBuilder overview; PocketBuilder vs. PowerBuilder; enterprise mobile applications; potential systems for mobile applications; migrating PowerBuilder applications; Pocket PC application design, development, and architecture; integrating with Windows CE APIs; tips for working with Windows CE; mobile computing architectures; a look at SQL Anywhere Studio; PocketSOAP and Web services; application testing and deployment.

WHO SHOULD ATTEND: Application Designers, Application Developers.

PREREQUISITES: PowerBuilder Developer experience.

DEV333

DURATION:
2 Days

FORMAT:
50% Lecture
50% Lab

SKILL:
Building

TYPE:
Classroom,
On Site

BUILDING OBJECT-ORIENTED APPLICATIONS WITH POWERBUILDER

Examine object-oriented application development concepts and object-oriented programming techniques in the PowerBuilder IDE that maximize reuse—both in your current applications and in future development projects. Learn how to implement inheritance, polymorphism, generic object messaging, and encapsulation. Study how PowerBuilder works internally with object instantiation, source code, and memory pools. Create reusable business rules that are utilized by a variety of distributed (n-tier) and Web clients.

COURSE TOPICS: Advantages of code and design reuse; object classes; inheritance; extension layers; object instances and instantiation; controls and visual user objects; menus; encapsulation; non-visual user objects; advanced instantiation; methods; messaging basics and implementation—communication techniques; polymorphism; exception handling; global data techniques; custom and server classes; services; encapsulating business rules.

WHO SHOULD ATTEND: Application Developers.

PREREQUISITES: *Fast Track: Developing Robust Applications Using PowerBuilder (DEV119).*

DEV335

DURATION:
3 Days

FORMAT:
40% Lecture
60% Lab

SKILL:
Building

TYPE:
Classroom,
On Site,
SyberLearning
LIVE

USING THE DATAWINDOW OBJECT IN POWERBUILDER 8

Focus on using the DataWindow, an important technology within PowerBuilder. Discover how to use DataWindows to simplify the access, manipulation, and presentation of data within applications built using PowerBuilder. Learn how to access and modify properties of the DataWindow object, manage transaction and concurrency issues, and create and change the behavior of DataWindows dynamically. Study how to access, validate, and update data and use data stores and examine distributed programming techniques for synchronizing data. PowerBuilder supports an all-in-one environment for creating Web clients and PowerBuilder applications and components. Explore the DataWindow as used in a Web client.

COURSE TOPICS: Sharing data using data stores; accessing properties; handling DataWindow errors; ad-hoc reporting techniques; using data stores in a distributed environment; deploying the Web DataWindow container to create an Enterprise Application Server component with DataWindow presentation and methods.

WHO SHOULD ATTEND: Application Developers, Project Managers and Web Developers with some experience of Data Windows in PowerBuilder.

PREREQUISITES: *Fast Track: Developing Robust Applications Using PowerBuilder (DEV119)* or equivalent experience.

DEV431

DURATION:
3 Days

FORMAT:
40% Lecture
60% Lab

SKILL:
Building

TYPE:
Classroom,
On Site

DEV442

DURATION:
4 Days

FORMAT:
50% Lecture
50% Lab

SKILL:
Building

TYPE:
Classroom,
On Site

ACCELERATING ENTERPRISE WEB APPLICATION DEVELOPMENT

Create enterprise-class, data-driven Web solutions using PowerBuilder's Web target functionality. Design and implement PowerBuilder applications using the Web DataWindow and scripting capabilities of Web targets. Implement, deploy, and troubleshoot applications, and reuse PowerScript code to power the Web. Leverage added Internet functionality by programming and customizing DataWindows.

COURSE TOPICS: Creating Web Pages using the PowerBuilder Web editor; creating forms in the Web editor; writing client-side JavaScript; managing multiple deployment configurations; creating Web pages containing DataWindows; writing JavaScript to display a Web DataWindow; tailoring the DataWindow objects for Web use; creating Web DataWindow container projects in PowerBuilder; setting up database connections; responding to client-side events on the Web DataWindow; managing sessions in a stateless environment; linking master/detail DataWindows; techniques for passing data to and from Web DataWindows; programming the 4GL Web page; programming server-side DataWindow events; influencing the behavior of an event; handling database errors; tuning and troubleshooting Web Targets; calling components from HTML clients; customizing the Web DataWindow component; implementing service classes for the Web DataWindow.

WHO SHOULD ATTEND: Application Developers.

PREREQUISITES: Prerequisite: *Fast Track: Developing Robust Applications Using PowerBuilder (DEV119), Mastering the DataWindow Object in PowerBuilder 9.0 (DEV542)* or equivalent experience.

DEV531

DURATION:
2 Days

FORMAT:
40% Lecture
60% Lab

SKILL:
Expert

TYPE:
Classroom,
On Site

BUILDING APPLICATIONS USING POWERBUILDER FOUNDATION CLASSES

Take full advantage of the PowerBuilder Foundation Classes (PFC) by leveraging object-oriented programming to maximize object reuse and minimize development costs. Focus on the PFC's interface functionality and logic processing that is common to many applications. Understand how this functionality is constructed and used to provide greater flexibility and optimize productivity in the application development cycle. Explore how to leverage a service-oriented architecture to minimize resource overhead and maximize reusability. Learn, extend, and customize services via various sample applications.

COURSE TOPICS: Service-oriented frameworks; PFC libraries, classes, and architecture; using extension libraries; using application, window and menu, and DataWindow services; working with user objects; modifying PFC extension levels; adding extension levels; adding services.

WHO SHOULD ATTEND: Application Developers.

PREREQUISITES: *Fast Track: Developing Robust Applications Using PowerBuilder (DEV119), Mastering the DataWindow Object in PowerBuilder 9.0 (DEV542), Building Object-Oriented Applications with PowerBuilder (DEV335)* or equivalent experience.

WEB333

DURATION:
One 3 Hour
Session

FORMAT:
Lecture only

SKILL:
Expert

TYPE:
?

NEW FEATURES OF POWERBUILDER 9.0

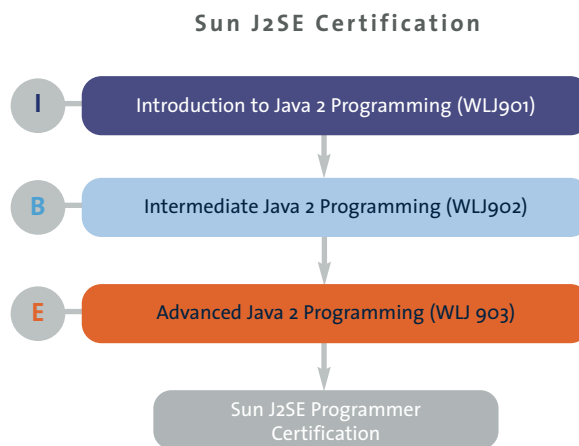
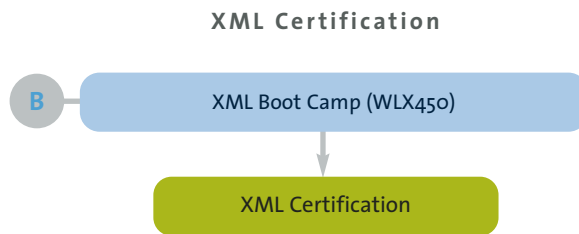
Discusses the changes to PowerBuilder from version 8.0 especially the new internet and client features. You will understand how to: Create a JSP Web DataWindow; Convert a DataWindow to XML; Read and create an XML document; Create and Deploy a Web Service; Use a Web Service from a PowerBuilder Client; Use the PowerBuilder Native Interface (PBNI).

COURSE TOPICS: XML DataWindows; The XML Tree; PBDOM and working with XML; Explanation of PBNI; DataWindows and Java Server Pages; Web services: client and server.

WHO SHOULD ATTEND: PowerBuilder Developers; Project Managers.

PREREQUISITES: *Fast Track to PowerBuilder 7 or Fast Track to PowerBuilder 8, Accelerating Enterprise Web Application Development, Basic understanding of XML and JSP.*

Courses Offered



Additional Courses

I INTRODUCTORY

Fast Track to Java	DEV144
Cold Fusion MX Bootcamp	WLC500
Web Fundamentals and Design Bootcamp	WLH106
Introduction to Project Management for the Web	WLH185
Dreamweaver MX 2004 Bootcamp	WLH202
Introduction to Macromedia Fireworks MX 2004	WLT221
Flash MX 2004 Bootcamp	WLT246

B BUILDING

Fast Track to JAVA XML	DEV332
Object-Oriented Programming in Visual Basic.NET	WLN680
Framework and ASP.NET Using Visual Basic.NET	WLN690
Building .NET Applications Using Sybase DataWindow.NET	DEV336

E EXPERT

Integrating XML, Web Services, and .NET with PowerBuilder	DEV537
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WLX450

DURATION:
5 Days

FORMAT:
40% Lecture
60% Lab

SKILL:
Building

TYPE:
Classroom,
On Site

XML BOOT CAMP

XML is the hottest Web technology in the industry right now! Maximize the usability of your website while maintaining the structure necessary to allow the site to grow. XML separates data from display so there is no end parser in mind - display the same information on a Web browser, a cell phone, or a Palm Pilot!

COURSE TOPICS: Understanding the role of XML applications; mastering XML document structure; incorporating document type definitions (DTDs); writing XML schemas; applying CSS and XSL stylesheets; transforming data with extensible Stylesheet Language Transformations (XSLT); understanding XML namespaces; using HTML to create dynamic data-driven XML applications; mastering advanced XSL; utilizing the power of Xpath; generating multiple outputs from XML data; manipulating your data with XSLT functions and expressions; transforming XML for data exchange with XSLT; passing data between pages with XML; performing searches on XML data; and writing modular code.

WHO SHOULD ATTEND: Application Developers, Software Engineers, Technical Managers, User Interface Developers.

PREREQUISITES: *Cascading Style Sheets, WLJ: 310 Introduction to JavaScript (WLH142)*

WLJ901

DURATION:
5 DAYS

FORMAT:
40% LECTURE
60% LAB

SKILL:
Introductory

TYPE:
Classroom,
On Site

INTRODUCTION TO JAVA 2 PROGRAMMING

Develop applications in Java and gain a foundation for learning Java server-side programming. Topics include running and compiling Java programs, datatypes, flow control, classes and objects, and inheritance. This course is designed for students who are proficient in C or C++ and have a prior understanding of object-oriented programming. It focuses only on the client-side Java APIs, the Java programming environment, and the Java programming language itself.

COURSE TOPICS: Foundations of Java; developing Java programs; compiling and testing Java programs; developing with Java APIs.

WHO SHOULD ATTEND: Application Developers, Software Engineers.

PREREQUISITES: Programming experience in at least one object-oriented programming language such as C++, Visual Basic, or Smalltalk

WLJ902

DURATION:
5 Days

FORMAT:
40% Lecture
60% Lab

SKILL:
Building

TYPE:
Classroom,
On Site

INTERMEDIATE JAVA 2 PROGRAMMING

Build on your solid knowledge of Java 2 Standard Edition (J2SE) server-side Java. Servlets and Java Server Pages (JSPs) are introduced as a means of producing dynamic Web content. Get an introduction to the Java database APIs, server-side programming, the Java 2 Platform, Enterprise Edition (J2EE) environment, and a server-side API using JDBC.

COURSE TOPICS: An understanding of J2SE architecture; server-side Java such as Servlets, JSPs, and producing dynamic Web content; using database APIs; relational database; and SQL and HTTP.

WHO SHOULD ATTEND: Application Developers, Software Engineers.

PREREQUISITES: *Introduction to Java 2 Programming (WLJ901)*; prior experience with relational database concepts, basic SQL, and the fundamentals of HTML and HTTP is strongly recommended.

WLJ903

DURATION:
3 Days

FORMAT:
40% Lecture
60% Lab

SKILL:
Expert

TYPE:
Classroom,
On Site

ADVANCED JAVA 2 PROGRAMMING

Get an introduction to Java 2 Platform, Enterprise Edition (J2EE) and particularly the Enterprise JavaBean (EJB) portion of that specification. EJBs allow sophisticated transaction management and integration with legacy systems to solve business problems. Study the advantages of EJB components and learn how to implement EJBs. Practice all of the topics covered by building an application from design through deployment. Experience shows that the EJB concepts are learned best by hands-on development in a mentored environment. Many students, including experienced EJB developers, find that learning EJBs in a short period of time is quite challenging because of their fairly complex architecture and the number of interfaces and APIs that have to be understood in order to comprehend the EJB code. The structure of this course is appropriate for teaching this complex material, and it is modular so that it can be reorganized on the fly to accommodate different class requirements.

COURSE TOPICS: J2EE; EJBs; transaction management and integration with legacy systems; solving business problems using Java; EJB complex architectures; and using interfaces and APIs.

WHO SHOULD ATTEND: Application Developers, Software Engineers.

PREREQUISITES: *Intermediate Java 2 Programming (WLJ902)*.

NEW BUILDING .NET APPLICATIONS USING SYBASE DATAWINDOW.NET

Learn to use DataWindow.NET to simplify the access, manipulation and presentation of data within applications built in a .NET environment using C# or Visual Basic. You will access and explore the properties of the Sybase DataWindow object and become expert at managing transaction and concurrency issues typical of database-driven applications. Learn how to dynamically create DataWindows and dynamically change the behavior of DataWindows. Other valuable topics include: how to access, validate, and update data; how to use DataStores; explore distributed programming techniques for synchronizing data. All labs and examples are developed in C#.

COURSE TOPICS: Sharing Data Using DataStores; Updating Data; Accessing Data; Accessing Properties; Handling DataWindow Errors; Validating Data; Managing Transactions; Creating DataWindows Dynamically; Adhoc Reporting Techniques; Using DataStores in a distributed environment.

WHO SHOULD ATTEND: Application Developers, Project Managers, Web Developers.

PREREQUISITES: Programming experience in C# or Visual Basic

DEV336

DURATION:
3 Days

FORMAT:
40% Lecture
60% Lab

SKILL:
Building

TYPE:
Classroom,
SyberLearning
LIVE

FAST TRACK TO JAVA

Jump-start your mastery of the Java programming language on the latest Java 2 platform. Gain hands-on coding experience while building real-world applications in a vendor-neutral environment. This course provides a comprehensive review for the industry-recognized Certified Programmer for the Java 2 Platform examination.

COURSE TOPICS: Course focus is on the Java language and not on any particular development tool; overview of Java technology; Java language basics (structure, organization, syntax); Java programming basics (operators, expressions, flow control); principles of object-oriented programming; applying object-oriented programming in Java handling exceptions; working with input/output (I/O) streams; Java programming toolbox; designing a graphical user interface (AWT GUI); GUI event handling; accessing the database using JDBC; multithreading; and Enterprise Java—Java Certified Programmer examination review (including the J2EE specifications).

WHO SHOULD ATTEND: Application Developers, Database Administrators, IT Professionals.

PREREQUISITES: None

DEV144

DURATION:
4 Days

FORMAT:
60% Lecture
40% Lab

SKILL:
Introductory

TYPE:
On Site,
SyberLearning
LIVE

FAST TRACK TO JAVA XML

Building XML Applications Using J2EE

This hands-on course is for experienced PowerBuilder developers who want to utilize & understand the new features added to PowerBuilder 10 for client/server, component, web client and web service development. Learn to use the new features of PowerBuilder 10 to migrate an existing PowerBuilder Power Script-based application from a previous version of PowerBuilder. Use an EAServer utility program to migrate a PowerDynamo web site into a JSP web site. Create and deploy a PowerBuilder non-visual object (NVO) from within the PowerBuilder IDE into EAServer and expose it as a Web Service, as well as build your own UDDI browser. Create, configure and deploy an XML DataWindow as part of a JSP target application. Using reverse engineering techniques, you will reverse engineer an existing PowerBuilder application into a PowerDesigner Object Model, make changes to the model and regenerate and you're your PowerBuilder Objects. Using the internationalization features of PowerBuilder 10, you will use Unicode characters to internationalize a GUI. Lastly, to facilitate handicapped users you will transform a non-508c accessible window and DataWindow to a 508c compliant application window. Many of these significant new features are reinforced in practical lab exercises.

COURSE TOPICS: Core PB New Features including: Unicode conversion from DBCS, Section 508 accessibility, New Language features, New Database Drivers, New Client Server Features, GUI Enhancements, Memory Management, PB Cryptography. Migrating from PowerBuilder 6.x, 7, 8, and 9 to version 10, Application Modeling with the PowerDesigner Plug-In, Building Section 508c Accessibility Compliant Windows, Web Target New Features: XML Web DataWindow and JSP 2.0, Web Service Enhancements: UDDI Browsing, Deploying a PB NVO directly from PB as a Web SVC, Building Web Services Clients.

WHO SHOULD ATTEND: Experienced PowerBuilder Developers, Web Developers who use PowerBuilder.

PREREQUISITES: *Fast Track: Developing Robust Applications Using PowerBuilder (DEV119), Moving to PowerBuilder 9.0 (DEV334), Building Applications with PowerBuilder and EAServer (DEV440) or equivalent, Mastering Enterprise Data Windows: Advanced Techniques in Data Driven Development (DEV542) or equivalent, experience with the PowerBuilder 8 and/or 9 IDE.*

DEV332

DURATION:
3Days

FORMAT:
40% Lecture
60% Lab

SKILL:
Building

TYPE:
On Site

WLN68o

DURATION:
5 Days

FORMAT:
Lecture/Lab

SKILL:
Building

TYPE:
Classroom,
On Site

OBJECT-ORIENTED PROGRAMMING IN VISUAL BASIC.NET

Come up to speed quickly on the Visual Basic.NET (VB.NET) language and study the .NET framework in-depth in order to begin building significant applications using VB.NET and the .NET framework. Plus, get an introduction to object-oriented programming. This practical course offers many examples and uses a case study as a realistic demonstration. Learn how to build and deploy VB.NET applications; understand VB.NET components and assemblies; take advantage of VB.NET's versioning and deployment features; work with VB.NET's metadata, reflection, I/O, serialization, threading and memory management; and connect to database data.

WHO SHOULD ATTEND: Application Developers, Software Engineers.

PREREQUISITES: Experience with ASP.NET coding in VB.NET.

WLN69o

DURATION:
5 Days

FORMAT:
Lecture/Lab

SKILL:
Building

TYPE:
Classroom,
On Site

.NET FRAMEWORK AND ASP.NET USING VISUAL BASIC.NET

As .NET becomes increasingly popular, take advantage of its full potential. Learn the .NET framework to maximize your effectiveness of using the VB.NET language within that framework. Active Server Pages (ASP) is still one of the most popular server-side technologies. ASP.NET is a much-needed update. Microsoft developed ASP.NET as part of its wider .NET framework and as a way of challenging the performance, scalability, and development advantages that competing server-side technologies enjoyed. Gain hands-on experience in developing Web applications using ASP.NET and VB.NET, and get an introduction to Web services, one of the hottest topics in Internet programming.

WHO SHOULD ATTEND: Application Developers, Software Engineers.

PREREQUISITES: *Object-Oriented Programming in Visual Basic.NET (WLN68o).*

WLH185

DURATION:
2 Days

FORMAT:
Lecture/Lab

SKILL:
Introductory

TYPE:
Classroom,
On Site

INTRODUCTION TO PROJECT MANAGEMENT FOR THE WEB

The scope and functionality of a Web site is determined by the business goals your organization seeks to achieve through its Web presence. Some common business goals include selling products online, entertaining Web audiences, educating learners, or distributing information. Whether you're managing a Web project for the first time or need some pointers on project management specifically for the Web, Introduction to Project Management for the Web gives you the tools you need to clarify your site's business goals, plan the scope and functionality of your site accordingly, and manage its production cycle effectively.

WHO SHOULD ATTEND: Project Managers.

PREREQUISITES: Basic knowledge of Microsoft Word and Excel. Comfortable using the Internet.

WLT221

DURATION:
2 Days

FORMAT:
Lecture/Lab

SKILL:
Introductory

TYPE:
Classroom,
On Site

INTRODUCTION TO MACROMEDIA FIREWORKS MX 2004

Macromedia Fireworks MX is a powerful tool that enables you to create and compress graphics for the Web. Fireworks MX's power is not limited to editing and optimizing existing images. The program also has robust abilities to create fresh and innovative images from scratch, build compact HTML code, and generate dynamic and interactive effects. Specifically written for the Web, Fireworks MX makes the process of building image rollovers, animated graphics, image maps, and pop-up menus a simple task.

WHO SHOULD ATTEND: Application Developers, Software Engineers.

PREREQUISITES: WLH12o: Intermediate HTML

COLD FUSION MX BOOTCAMP

ColdFusion is a Web server add-on for Windows, Linux, and Solaris that makes integrating real-time database information with your Web site as easy as adding a few new tags to your pages. The second half of the week, you will learn the advanced skills you need to build even more useful and efficient database-driven Web applications. We will also introduce you to powerful new features introduced in ColdFusion MX.

WHO SHOULD ATTEND: Application Developers & Software Engineers.

PREREQUISITES: Advanced HTML: *Introduction to Forms and Scripting (WLH130)*

WLC500

DURATION:
5 Days

FORMAT:
Lecture/Lab

SKILL:
Introductory

TYPE:
Classroom,
OnSite

DREAMWEAVER MX 2004 BOOTCAMP

Macromedia Dreamweaver is the most powerful Web design tool available today. In this class, students will gain the HTML and Dreamweaver skills necessary to build attractive, dynamic Web pages. In addition to laying out your pages visually, Dreamweaver allows the creation of interactive effects such as animations and mouseovers, and writes powerful JavaScript code. You will make pages that respond intelligently to users' actions. Macromedia Dreamweaver is more than a powerful, intuitive HTML editor: it has features that will allow you to work on group projects, manage and customize your site, and even customize the tool itself for your specific purposes. If you are ready to create linked style sheets, templates, custom objects, site maps, and server-side includes, and are looking for more ways to make your pages dynamic while saving valuable development time, this is the class for you.

WHO SHOULD ATTEND: Application Developers & Software Engineers.

PREREQUISITES: All students should have extensive experience exploring the Web prior to class.

WLH202

DURATION:
4 Days

FORMAT:
Lecture/Lab

SKILL:
Introductory

TYPE:
Classroom,
OnSite

FLASH MX 2004 BOOTCAMP

See why Flash is the industry standard for creating web sites that are enhanced with multimedia animation. Flash allows you to produce rich and impressive looking animations while keeping file sizes small enough to stream seamlessly over a normal modem connection. You will be given the opportunity to use your creativity and exercise your new skills by completing an extensive, real-world case study. We will explore in depth topics such as graphics creation and animation, using ActionScript to control Flash movies and add interactivity, drag-and-drop shopping cart applications, and more! At the end of the bootcamp, you will have an impressive portfolio, packed full of Flash movies and projects you have produced yourself!

WHO SHOULD ATTEND: Application Developers & Software Engineers.

PREREQUISITES: Good working knowledge of HTML or Macromedia Dreamweaver. Basic computer knowledge and familiarity with JavaScript; Familiarity with other graphics programs such as Adobe Photoshop, Adobe Illustrator, Macromedia Fireworks, or Macromedia Director is helpful.

WLT246

DURATION:
5 Days

FORMAT:
Lecture/Lab

SKILL:
Introductory

TYPE:
Classroom,
OnSite

WEB FUNDAMENTALS AND DESIGN BOOTCAMP

Looking for a career change or to update your Web skills? The Web Fundamentals & Design Bootcamp will help you learn what goes into making a website look good. These are essential skills for anyone who wants to build or maintain a Website or Intranet. This intensive, one-week course will put your Web career on the fast track!

WHO SHOULD ATTEND: Application Developers & Software Engineers.

PREREQUISITES: Familiarity with Web Browsers and the Windows user interface.ingly po

WLH106

DURATION:
5 Days

FORMAT:
Lecture/Lab

SKILL:
Introductory

TYPE:
Classroom,
OnSite

Courses offered

I INTRODUCTORY

EAServer: Developing Web Applications with Enterprise JavaBeans	DEV343
EAServer: Building Web Applications with Java (J2EE)	DEV444

E EXPERT

EAServer: Delivering Web Services	DEV530
EAServer 5.0 Administration	DEV555
EAServer 24 x 7	WEB554

DEV343

DURATION:
3 Days

FORMAT:
50% Lecture
50% Lab

SKILL:
Expert

TYPE:
Classroom,
On Site,
SyberLearning
LIVE

DEV444

DURATION:
2 Days

FORMAT:
60% Lecture
40% Lab

SKILL:
Building

TYPE:
Classroom,
On Site,
SyberLearning
LIVE

EA SERVER: DEVELOPING WEB APPLICATIONS WITH ENTERPRISE JAVABEANS

The Enterprise JavaBean (EJB) is a major new standard for distributed application development using Java. It provides a server-side component model for developing enterprise- distributed applications. Master and apply the EJB 2.0 API to write vendor neutral, scalable, high-performance components and deploy them into Sybase Enterprise Application Server (EAServer) to provide a robust, scalable deployment environment for leveraging the strengths of EJBs quickly. This technology greatly simplifies application development by putting the onus for system level logic (transaction management, persistence, security, etc.) on the middle-tier component transaction server.

COURSE TOPICS: Distributed architectures; overview of EAServer and its environment; overview of EAServer client and component support; EJB architecture; developing session beans; developing entity beans; working with bean lifecycles; managing transactions; Container-Managed Persistence 2.0 including EJB-QL; installing and using connection caches; processing result sets and database access; and maintaining state information.

WHO SHOULD ATTEND: Application Developers.

PREREQUISITES: *Fast Track to Java (DEV144)* or equivalent experience.

ENTERPRISE APPLICATION SERVER: BUILDING WEB APPLICATIONS WITH JAVA (J2EE)

Learn to develop powerful enterprise Web applications quickly and easily using Sybase and J2EE technology. Create J2EE Application Programming Interfaces (API) such as Java Server Pages (JSP), Servlets, Enterprise JavaBeans (EJBs), as well as many others. Generate dynamic Web content by deploying these applications to Enterprise Application Server (EAServer). Gain an understanding of the Model View Controller (MVC) pattern, as well as the best practices in developing applications using Sun Microsystems' J2EE blueprints.

COURSE TOPICS: EAServer overview; JSPs; Servlets; Java blueprints and best practices; interfacing with EJBs from JSPs and Servlets; and deploying an enterprise Web application.

WHO SHOULD ATTEND: Java Application Developers.

PREREQUISITES: Application Server overview; JSPs; Servlets; Java blueprints and best practices; interfacing with EJBs from JSPs and Servlets; and deploying an enterprise Web application.

ENTERPRISE APPLICATION SERVER: DELIVERING WEB SERVICES

Learn how to use existing components such as Enterprise JavaBeans (EJBs) to build robust, secure, and scalable Web services to be hosted and deployed by Enterprise Application Server (EAServer). Examine the use of the EAServer Web Services Toolkit, which simplifies and accelerates Web services deployment and integrates existing systems in a platform and language-neutral way. WSDL is used to describe the service and publish service information to a UDDI registry site to make their Web services available to others on the Internet while accessing other Web services with SOAP as the XML-based transport. SOAP, UDDI, XML, and WSDL are all exploited by the Web Services Toolkit and further accelerate Web services in allowing remote clients easy access to EAServer-hosted components.

COURSE TOPICS: XML; WSDL; SOAP; UDDI; and the EAServer Web Services Toolkit.

WHO SHOULD ATTEND: Architects, Application Server Administrators, Application Developers.

PREREQUISITES: None

DEV530

DURATION:
2 Days

FORMAT:
50% Lecture
50% Lab

SKILL:
Introductory

TYPE:
On Site,
SyberLearning
LIVE

ENTERPRISE APPLICATION SERVER 5.0 ADMINISTRATION

Learn how to administer and secure Enterprise Application Server in an n-tiered architecture, understanding the new features of EAServer 5.0. Install EAServer 5.0 using custom options and know how to administer the server using EAServer Manager. Understand the EAServer Transaction Management and Remote Systems Management capabilities. Setup and test clustering, load balancing and component fail-over and be able to deploy applications into a production environment, troubleshooting problems. Use the Web Services Toolkit and the JagTool / JagAnt tools.

COURSE TOPICS: EAServer Overview, Multi-tier (or Distributed) Architecture, Remote Method Invocation (RMI), Distributed Services EAServer Enhancements, EAServer Manage, Jagtool, Troubleshooting and Monitoring Tools, Web and Security-Related , Web Services Toolkit, Installing EAServer 5.0, Upgrading to EAServer 5.0, EAServer Manager Usability Enhancements, Using the New EAServer Manager, Administrative Tasks with the EAServer Manager EAServer, Clusters, Defining and Creating a Cluster, Cluster Mechanics, Synchronization, Load Balancing, Automatic Failover, Defining and Creating a Connection Cache, Proxy Support, EAServer Transaction Manager Overview, Configuring the Transaction Manager, Deploying and Configuring a J2EE Application, Repository, Versioning Overview and Mechanics, Runtime Monitoring Features, Understanding how to Monitor Servers, Subsystems, Components and Network Listeners, Troubleshooting, Reading and Interpreting EAServer Log files, Server Problems, Database Connection Problems, Application/Component Problems, System-Level Problems, Administering EAServer Security and Client Authentication, Changing Role Functionality, Role-Based Security, Digital Certificates / Public Key Encryption, Using the Ant / JagTool, Using the Web Services Toolkit features.

WHO SHOULD ATTEND: Application Server Administrator, Application Programmer, Network Administrator, Database Administrator.

PREREQUISITES: Knowledge of object-oriented programming, active programming experience, previous experience with EAServer, Database Administration experience .

DEV555

DURATION:
5 Days

FORMAT:
50% Lecture
50% Lab

SKILL:
Expert

TYPE:
Classroom,
On Site,
SyberLearning
LIVE

EASERVER 24x7

A detailed expose of the concepts, implementation, configuration and maintenance issues involved in building and maintaining a scalable and highly available Web multi-tiered application using EAServer. Hands on labs reinforcing theory presented will follow each lecture segment.

COURSE TOPICS: Overview of Clustering; Creating and configuring an EAServer process; Implementing an EAServer Cluster; Synchronizing a Cluster; The role of Naming Service; Load Balancing; High Availability and component Fail-Over, Application versioning.

WHO SHOULD ATTEND: Middle-Tier component developers; Web-Tier component developers; EAServer Administrators; Network Administrators charged with maintaining EAServer production systems ; Technical hands-on Managers.

PREREQUISITES: Familiarity with Web Application programming including Java Servlets (JSP), Enterprise Java Beans or PowerBuilder components.

WEB554

DURATION:
2 Sessions
2 Hours Each

FORMAT:
100% Lecture

SKILL:
Expert

TYPE:
SyberLearning
LIVE

Business Process Integration

Courses offered

I INTRODUCTORY

Implementing EDI Solutions: X12 for Healthcare Mapping	NWM100
Implementing EDI Solutions: X12 for Commercial Mapping	EBZ114
Implementing EDI Solutions: HL7 for Healthcare Mapping	EBZ116
Fast Track to Unwired Orchestrator	EBZ150
Fast Track to e-Biz Impact 5.3	EBZ130

B BUILDING

Implementing EDI Solutions: EC Gateway Server	EBZ357
Migrating Impact to e-Biz Impact 5.3	EBZ430

NWM100

DURATION:
5 Days

FORMAT:
50% Lecture
50% Lab

SKILL:
Introductory

TYPE:
Classroom,
On Site,
SyberLearning
LIVE

IMPLEMENTING EDI SOLUTIONS: X12 FOR HEALTHCARE MAPPING

Get hands-on training working with an any-to-any map, 837-Healthcare Claim, and 835- Healthcare Claim Payment/ Advice mapping scenarios. Become familiar with Electronic Data Interchange (EDI). Study EDI terminology and basic components, trading partner profiles, implementation guides, and transaction flow between trading partners. Review the ASC X12 standards and syntax, learn to use the EMap Development Workbench, and how to define a flat file to flat file map, an inbound 835 transaction, and two outbound 837s—one of which is enhanced with dependent loops.

COURSE TOPICS: EDI introduction/fundamentals; use of the EMap Development Workbench; explanation of EMap toolbar; how to define a EDI Map project; creating and selecting a map; defining your company and trading partner's EDI envelope configuration information; discussion and demonstration of the extraction of record definitions and selecting map segments for your transaction; discussion and demonstration of memory variable, adding rules, creating cross reference tables, and other special features; and advanced and complex mapping techniques.

WHO SHOULD ATTEND: Customer Technical Staff, EDI Implementation Personnel.

PREREQUISITES: *EMap Quick Tours in Appendix E* of the Reference Guide (accessible after product installation).

EBZ114

DURATION:
5 Days

FORMAT:
20% Lecture
80% Lab

SKILL:
Introductory

TYPE:
Classroom,
On Site,
SyberLearning
LIVE

IMPLEMENTING EDI SOLUTIONS: X12 FOR COMMERCIAL MAPPING

Gain familiarity with EDI Server (not including Gateway) or Adapter Suite, and map "to and from" ANSI X12 transactions utilizing sequential files and databases. Create a flat file to flat file map allowing you to address different proprietary application to the format of a different proprietary application. Learn to navigate EDI Server and Adapter Suite by mapping a sequential file to an X12 850 (purchase order) transaction. Examine the concepts of handling back to back like segments and loops by mapping an X12 810 (invoice) transaction to a sequential file. Select data from a database and create an X12 850 transaction and acquire an introduction to the Select and Fetch capabilities available in EDI Server and Adapter Suite.

COURSE TOPICS: Discuss EMap's capabilities and flexibility; Organization of ANSI X12 standards documentation; understanding of X12 mapping concepts in EMap; creation of Cross Reference Tables; Data Manipulation at the element level; using conditions to facilitate mapping; handling multiple back to back segments and loops; understanding how to read and write the application data layouts in relationship to the structure of the X12 transaction.

WHO SHOULD ATTEND: E-Commerce Managers ; EDI Managers, Coordinators, Specialists and Consultants.

PREREQUISITES: Familiarity with Microsoft Windows; EDI Implementation Experience; Familiarity with ANSI X12.

Business Process Integration

IMPLEMENTING EDI SOLUTIONS: HL7 FOR HEALTHCARE MAPPING

Learn to use EMap to build an Any-to-Any map, create an inbound map using HL7 message input mapped to multiple outputs. Become familiar with Electronic Data Interchange (EDI) and HL7 and its application in healthcare. Study EDI terminology and basic components, trading partner profiles, implementation guides, and transaction flow between trading partners. Review the HL7 standards and syntax. Use all current features of EMap in extensive hands-on exercises.

COURSE TOPICS: Introduction to EMap v.4.0.1, Installing and Using EMap; Creating an Any-to-Any Map; Introduction to EDI and HL7; Inbound Transaction Map Functionality; Business Case Study – An Inbound Transaction Map; Enhancing the Inbound Transaction Map – Business Case Study; Outbound Transaction Map Functionality; Archiving Maps & Running Reports; Running Maps with a Batch File; Generating & Running a Print Map; Archiving Maps & Running Reports; EDI Foundations; Implementation Guides for HL7 Inbound and Outbound Transaction Maps.

WHO SHOULD ATTEND: Customer Technical Staff, EDI Implementation Personnel.

PREREQUISITES: EMap Quick Tours in Appendix E of product documentation – Appendix E of the Reference Guide.

EBZ116

DURATION:
5 Days

FORMAT:
40% Lecture
60% Lab

SKILL:
Introductory

TYPE:
Classroom,
On Site,
SyberLearning
LIVE

IMPLEMENTING EDI SOLUTIONS: EC GATEWAY SERVER

Gain insight into the inner workings of the EC Gateway architecture and learn how to customize EC Gateway for your specific business needs. Based on a real-world scenario, configure the system and work through the fundamental steps required to process EDI data using examples of maps, trading partners, and test data. Learn to run and troubleshoot the EC Gateway process and migrate from one EC Gateway system to another (i.e., development to a production environment). Understand how to automate the tasks involved in processing EDI data including processing maps, setting up trading partners, tracking messages, and scheduling unattended operations.

COURSE TOPICS: Overview of EDI; overview of the EC product suite; the EC Gateway server; architecture and major component overview; installing and configuring EC Gateway; implementing communications (managing process management); administrative tasks (launching processes with the scheduler); building EC Gateway process scripts to run maps; advanced EC Gateway processes; using EC Gateway to communicate with MQSeries queues; additional EC Gateway process commands; and maintaining EC Gateway.

WHO SHOULD ATTEND: Application Developers, System Administrators.

PREREQUISITES: None

EBZ357

DURATION:
5 Days

FORMAT:
70% Lecture
30% Lab

SKILL:
Building

TYPE:
Classroom,
On Site,
SyberLearning
LIVE

FAST TRACK TO E-BIZ IMPACT 5.3

Design, configure, and implement an e-Biz Impact integrated environment and learn key product features of e-Biz Impact 5.3. Gain the expertise to take full advantage of your integration server environment, whether you are migrating or a new user. Learn how the function of transforming data to an XML data format can help you to standardize communications with other XML data sources. Examine feature enhancements such as simplified configuration, enhanced security, and monitoring. Study a methodology to integrate e-Biz Impact with Process Server, Adapters, and messaging software.

COURSE TOPICS: Overview of the MSG-IDE tool; creating Introductory and delivery AIMS; configuring AIMS; overview of the TRAN-IDE tool; creating production objects; understanding the store and forward manager; using Object Definition Language (ODL); understanding open transport and how to use it with e-Biz Impact; using distributed function calls; converting and enriching data; using Test Drive to test formats and rules; defining security controls using the authorization tool; monitoring the environment with the global console; managing and using log files; and bridging e-Biz Impact to other systems.

WHO SHOULD ATTEND: Application Developers, System Analysts, System Managers.

PREREQUISITES: None

EBZ130

DURATION:
5 Days

FORMAT:
40% Lecture
60% Lab

SKILL:
Introductory

TYPE:
On Site

MIGRATING IMPACT TO E-BIZ IMPACT 5.3

Become familiar with the tools and environment enhancements of the new e-Biz Impact 5.3 release for the UNIX and NT server environments. Hands-on labs are conducted in the NT environment with multiple references to implementation for UNIX users. Examine development migration and project management tasks, and study a new component-based architecture that gives greater flexibility in designing your environment. Examples of how to migrate from an Impact 4.x environment to an Impact 5.3 environment give you practical experience that you can apply to your own environment.

COURSE TOPICS: Overview of Impact 5.3; discussion of the structure of the new environment; Impact Manager (replaces BSM); the continuing roles of SFM, TRAN-IDE, and MSG-IDE; modification and expansion of the Object Definition Language (ODL); the new configuration GUI—e-Biz Impact Configurator authenticating portal users; authorizing access to secure assets of the portal; log files—old and new; monitors (based on the Microsoft Management Console); new features and obsolete features; bridging both worlds—Impact Manager to BSM; and known problem areas.

WHO SHOULD ATTEND: Software Developers, System Analysts, System Managers.

PREREQUISITES: *Fast Track to Impact 4.1 (EBZ108)* or experience with *Impact 4.1*.

EBZ430

DURATION:
3 Days

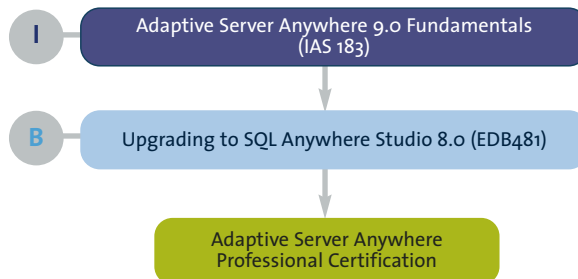
FORMAT:
40% Lecture
60% Lab

SKILL:
Building

TYPE:
On Site

Learning Path

Adaptive Server Anywhere Professional Certification



Additional Courses

I INTRODUCTORY

Manage Anywhere Studio 5.0 Administration IAS184

B BUILDING

Building Enterprise Wireless Applications Using PocketBuilder DEV333

Building UltraLite Applications for Handheld Devices EDB333

Synchronizing Data Using MobiLink 8.0 IAS380

Replicating Data Using SQL Remote 9.0 IAS384

Afaria 5.1 System Administration AFA351

E EXPERT

Afaria Advanced Functionality AFA551

IAS183

DURATION:
4 Days

FORMAT:
60% Lecture
40% Lab

SKILL:
Introductory

TYPE:
On Site,
SyberLearning
LIVE

ADAPTIVE SERVER ANYWHERE 9.0 FUNDAMENTALS

Gain an understanding of mobile and workgroup database functionality and administration. Learn how to develop and manage standalone and server databases. Insert and retrieve data; meet enterprise standards for data availability, security, consistency, and integrity. Design databases, queries, and Stored Procedures for optimal performance. New features include automating the access of remote data using proxy tables, automating tasks with schedules and events, and using the debugger to prevent or solve problems.

COURSE TOPICS: An overview of Adaptive Server Anywhere; connecting to the database; creating and using databases; database objects; manipulating data; programming interfaces overview; transaction processing; backup and recovery; security; common administration tools; Stored Procedures and triggers; automating tasks with schedules and events; performance and tuning; accessing remote data; deployment issues.

WHO SHOULD ATTEND: Database Administrators, SQL Anywhere Application Developers.

PREREQUISITES: None

UPGRADING TO SQL ANYWHERE STUDIO 8.0

This course covers the new features and benefits of SQL Anywhere Studio 8.0. It discusses in detail changes in behavior and functionality between versions for SQL Anywhere 5.5.x on up. Completion of this course will provide you with a sound knowledge base from which to prepare and implement an upgrade plan.

COURSE TOPICS: New Feature Overview, New MobiLink Technology, Upgrading SQL Anywhere Studio Applications, Backup & Recovery, Administration Tools Review, Mobile Data Security, Diagnostic Tools in SQL Anywhere Studio, Understanding & Dealing with Fragmentation, Deployment Tips & Techniques, Stored Procedure Debugging & Profiling and SQL-Java Support in ASA.

WHO SHOULD ATTEND: Individuals responsible for designing, implementing, and managing business process models and/or migrating an existing iAnywhere Studio application to use iAnywhere Studio 8.0.

PREREQUISITES: *Adaptive Server Anywhere 9.0 Fundamentals (IAS183)*, *Replicating Data using SQL Remote (EDB381)*, *Building UltraLite Applications for Handheld Devices (EDB330)*.

EDB481

DURATION:
3 Days

FORMAT:
67% Lecture
33% Lab

SKILL:
Building

TYPE:
Classroom
On Site,
SyberLearning
LIVE

BUILDING WIRELESS ENTERPRISE APPLICATIONS USING POCKETBUILDER

PocketBuilder can be used to create sophisticated data-driven applications for the Pocket PC. Learn how to access and update enterprise data from a mobile device without requiring a wireless network connection. Design and build an application that uses Adaptive Server Anywhere and MobiLink synchronization. practice techniques for connecting PocketBuilder applications to your ASA database using the DataWindow, and synchronize your mobile database application with your enterprise servers. Also learn how to refresh your Pocket PC device with specific subsets of corporate data for disconnected use, and the steps for deploying your database and applications to a Pocket PC device.

COURSE TOPICS: PocketBuilder overview; PocketBuilder vs. PowerBuilder; enterprise mobile applications; potential systems for mobile applications; migrating PowerBuilder applications; Pocket PC application design, development, and architecture; integrating with Windows CE APIs; tips for working with Windows CE; mobile computing architectures; a look at SQL Anywhere Studio; PocketSOAP and Web services; application testing and deployment.

WHO SHOULD ATTEND: Application Designers, Application Developers.

PREREQUISITES: *PowerBuilder Developer* experience.

DEV333

DURATION:
2 Days

FORMAT:
50% Lecture
50% Lab

SKILL:
Building

TYPE:
Classroom,
On Site

BUILDING ULTRALITE APPLICATIONS FOR HANDHELD DEVICES

Building Handheld Database Solutions

Learn how to program, implement, and deploy a compact database application for handheld devices using SQL Anywhere Studio and its UltraLite deployment option.

COURSE TOPICS: UltraLite Architecture, Database Preparation, Embedded SQL API, UltraLite and the Software Development Environment, The C++ API, Generating Unique Keys, Enterprise Integration with MobiLink Server Synchronization Technology.

WHO SHOULD ATTEND: Application Developers.

PREREQUISITES: *Adaptive Server Anywhere 9.0 Fundamentals (IAS183)*

EDB333

DURATION:
2 Days

FORMAT:
65% Lecture
35% Lab

SKILL:
Building

TYPE:
Classroom,
On Site

MANAGE ANYWHERE STUDIO 5.0 ADMINISTRATION

Understand the capabilities of Manage Anywhere Studio. Learn how the product is designed, how it is best used in practical environments, and how it fits into the scheme of distributed management services and the management of mobile systems in general. Gain hands-on knowledge and skills for installing and administering the Manage Anywhere Server and client agents. Learn how to deploy and install clients, distribute software to client computers, and collect/manage hardware and software inventory while creating a variety of packages. Study the differences between task and self-healing image packages, learn how to schedule tasks, and use the live support tools.

COURSE TOPICS: Manage Anywhere Studio overview; installation and configuration; managing system inventory; package distribution and task scheduling; using the built-in Manage Anywhere Studio package editor; self-healing and snapshot imaging; using live support; troubleshooting Manage Anywhere.

WHO SHOULD ATTEND: Support/Help Desk Personnel, Systems Administrators.

IAS184

DURATION:
2 Days

FORMAT:
50% Lecture
50% Lab

SKILL:
Introductory

TYPE:
Classroom,
On Site

IAS380

DURATION:
3 Days

FORMAT:
60% Lecture
40% Lab

SKILL:
Building

TYPE:
Classroom,
On Site

SYNCHRONIZING DATA USING MOBILINK 8.0

The ability to synchronize data with disparate, existing data stores is a key requirement for mobile and wireless applications to extend enterprise solutions. MobiLink technology (included with iAnywhere Studio) gives the ability to synchronize data from consolidated databases (such as Sybase Adaptive Server Anywhere (ASA), Sybase Adaptive Server Enterprise (ASE), Microsoft SQL Server, Oracle, and DB2) with ASA remotes and UltraLite applications. Get an overview of how this technology works, review basic and advanced techniques, and understand when MobiLink technology is most suitable for applications.

COURSE TOPICS: MobiLink introduction and overview; setting up consolidated and remote databases; how MobiLink synchronization works; partitioning distributed data; data uniqueness within a distributed database; resolving synchronization conflicts; handling synchronization errors; security in a distributed database environment; and extended options and customization hooks for ASA remotes.

WHO SHOULD ATTEND: Database Administrators, Database Designers, Information System Professionals who need to maintain data between enterprise databases and remote, distributed clients using ASA or UltraLite.

PREREQUISITES: *Adaptive Server Anywhere 9.0 Fundamentals (IAS183).*

IAS384

DURATION:
3 Days

FORMAT:
60% Lecture
40% Lab

SKILL:
Building

TYPE:
On Site,
SyberLearning
LIVE

REPLICATING DATA USING SQL REMOTE 9.0

Acquire an understanding of the basics of bi-directional replication of information between enterprise systems and remote devices in an asynchronous environment. Explore the design and implementation of a replicated Adaptive Server Anywhere (ASA) database. Implement remote database architecture in the classroom. Learn publications, subscriptions, and conflict resolution and gain an understanding of database design considerations. Build familiarity with the principles of administering a replication system. Design and implement a data replication system using iAnywhere Solutions¹ replication technology.

COURSE TOPICS: Introduction to data replication with ASA 9.0; setting up replication; restricting replication based on data values; how SQL Remote works; ensuring uniqueness; managing update conflicts; publishing dependent tables; many-to-one and many-to-many relationships; guaranteed message delivery; maintaining a replication system; and performance issues.

WHO SHOULD ATTEND: Database Administrators, Database Designers, Information System Professionals and individuals who need to maintain data between enterprise databases and remote, distributed clients using ASA or UltraLite.

PREREQUISITES: *Adaptive Server Anywhere 9.0 Fundamentals (IAS183).*

AFA351

DURATION:
4 Days

FORMAT:
50% Lecture
50% Lab

SKILL:
Building

TYPE:
Classroom

AFARIA 5.1 SYSTEM ADMINISTRATION **NEW**

This course, designed for system administrators, is an information-filled four days that teaches you how to get the Afaria system up and running quickly and efficiently. Covering installation, setup and system monitoring, this course focuses on hands-on practice with your own server, client machines and handheld devices. Learn to use channels to deliver documents, back up data, deploy and install software, script sessions, configure handheld devices, and gather client hardware and software information. Define whether clients access channels from a Web page or Afaria's Channel Viewer. During the workshop section, solve common business problems using the skills you've learned.

COURSE TOPICS: Installation preparation; Server and Client installation and setup; Content management with Document Manager; Data loss recovery with Backup Manager; Application management with Software Manager; Session automation with Session Manager; Asset management with Inventory Manager; License tracking with License Manager; Locking down lost/stolen devices with Security Manager; Server administration; Updates to the latest version of Afaria!

WHO SHOULD ATTEND: System administrators; Support professionals; System engineers

PREREQUISITES: Understanding of Internet and intranet concepts such as HTML and Web page use; Knowledge of Windows NT concepts such as NT services, user and group accounts and domains; Familiarity with Windows standard GUI conventions; Familiarity with handheld devices.

AFA551

DURATION:
3 Days

FORMAT:
40% Lecture
60% Lab

SKILL:
Expert

TYPE:
Classroom

AFARIA ADVANCED FUNCTIONALITY **NEW**

This three-day instructor-led course for current users will show you how to take advantage of your current Afaria environment. Unlike most courses there will not be much instructor lecture. This class will be primarily workshop based. The instructor will be there to guide participants to the solutions.

COURSE TOPICS: How to plan for an installation; Installing a Server Farm and Afaria Clients; Advance use of Session Manager events; Disaster recovery.

WHO SHOULD ATTEND: System administrators; Support professionals; System engineers.

PREREQUISITES: *Attended Afaria System Administration Course* or prior Afaria experience.

Available Courses

B BUILDING

RemoteWare System Administration	RWR361
Upgrading to RemoteWare® 4.X from RemoteWare® 3.X	RWR371
Afaria 5.1 System Administration	AFA351

E EXPERT

Remoteware Advanced Functionality	RWR561
Building UltraLite Applications for Handheld Devices	EDB333
Synchronizing Data Using MobiLink 8.0	IAS380
Replicating Data Using SQL Remote 9.0	IAS384
Afaria Advanced Functionality	AFA551

NEW REMOTEWARE SYSTEM ADMINISTRATION

In this information packed 5-day class, learn to install and set up the RemoteWare Server, Clients, and Managed Client components. Find out how to define system tasks, distribute software applications, gather hardware and software asset data and monitor system activity.

COURSE TOPICS: IRemoteWare Server and Client installation and setup; RemoteWare Managed Client installation; Work objects and events; Inbound, outbound, both and process only sessions; Assignments; Session activity viewing; Work object groups; Master worklist; System and user-defined variables; Software distribution and maintenance using Software Manager; Software and hardware asset tracking with Inventory Manager; Remote control and Interactive Session; AntiVirus solutions; Work object and session workshop.

WHO SHOULD ATTEND: System Administrators; Support Professionals; System Engineers.

PREREQUISITES: Understanding of network administration and security basics; Knowledge of Windows NT concepts such as NT services, user and group accounts and domains; Familiarity with Windows standard GUI conventions.

RWR361

DURATION:
5 Days

FORMAT:
50% Lecture
50% Lab

SKILL:
Building

TYPE:
Classroom

NEW UPGRADING TO REMOTEWARE® 4.X FROM REMOTEWARE® 3.X

This One-day instructor-led course for all current users who upgrade or are considering an upgrade to RemoteWare 4.x. During the course, you will perform an upgrade that includes backing up existing logs and system configuration as well as configuring SQL databases for Inventory Manager and the newly-structured RemoteWare logs. You will also learn to use new functions and enhancements in RemoteWare 4.x, Software Manager, and Inventory Manager that maximize efficiency and control of RemoteWare functionality.

COURSE TOPICS: Backing up existing logs and system configuration; Configuration of SQL Server databases for RemoteWare; Logging and Inventory Manager; RemoteWare 4.x Server upgrade; RemoteWare 4.x Client upgrade; New Features for the Basic Client; New Features for the Managed Client.

WHO SHOULD ATTEND: Database Administrators, Database Designers, Information System Professionals and System Engineers.

PREREQUISITES: Current user of RemoteWare (CONNECT:Remote).

RWR371

DURATION:
1 Day

FORMAT:
50% Lecture
50% Lab

SKILL:
Building

TYPE:
Classroom

RWR561

DURATION:
2 Days

FORMAT:
40% Lecture
60% Lab

SKILL:
Expert

TYPE:
Classroom

REMOTEWARE ADVANCED FUNCTIONALITY **NEW**

This two-day instructor-led course for current users will show you how to take advantage of your current RemoteWare environment. Unlike most courses there will not be much instructor lecture. This class will be primarily workshop based. The instructor will be there to guide participants to the solutions that will be presented to them.

COURSE TOPICS: Building on your current foundation; Using SQL; Performance tuning; Disaster recovery. Introduction to

WHO SHOULD ATTEND: System Administrators; Support Professionals; System Engineers.

PREREQUISITES: Current user of *RemoteWare* or attended *RemoteWare System Administration Course*.

AFA351

DURATION:
4 Days

FORMAT:
50% Lecture
50% Lab

SKILL:
Building

TYPE:
Classroom

AFARIA 5.1 SYSTEM ADMINISTRATION **NEW**

This course, designed for system administrators, is an information-filled four days that teaches you how to get the Afaría system up and running quickly and efficiently. Covering installation, setup and system monitoring, this course focuses on hands-on practice with your own server, client machines and handheld devices. Learn to use channels to deliver documents, back up data, deploy and install software, script sessions, configure handheld devices, and gather client hardware and software information. Define whether clients access channels from a Web page or Afaría's Channel Viewer. During the workshop section, solve common business problems using the skills you've learned.

COURSE TOPICS: Installation preparation; Server and Client installation and setup; Content management with Document Manager; Data loss recovery with Backup Manager; Application management with Software Manager; Session automation with Session Manager; Asset management with Inventory Manager; License tracking with License Manager; Locking down lost/stolen devices with Security Manager; Server administration; Updates to the latest version of Afaría!

WHO SHOULD ATTEND: System administrators; Support professionals; System engineers

PREREQUISITES: Understanding of Internet and intranet concepts such as HTML and Web page use; Knowledge of Windows NT concepts such as NT services, user and group accounts and domains; Familiarity with Windows standard GUI conventions; Familiarity with handheld devices.

AFA551

DURATION:
3 Days

FORMAT:
40% Lecture
60% Lab

SKILL:
Expert

TYPE:
Classroom

AFARIA ADVANCED FUNCTIONALITY **NEW**

This three-day instructor-led course for current users will show you how to take advantage of your current Afaría environment. Unlike most courses there will not be much instructor lecture. This class will be primarily workshop based. The instructor will be there to guide participants to the solutions.

COURSE TOPICS: How to plan for an installation; Installing a Server Farm and Afaría Clients; Advance use of Session Manager events; Disaster recovery.

WHO SHOULD ATTEND: System administrators; Support professionals; System engineers.

PREREQUISITES: Attended *Afaría System Administration Course* or prior Afaría experience.

Courses offered

I INTRODUCTORY

Fast Track to Sybase Enterprise Portal

SEP120

B EXPERT

Sybase Enterprise Security

SEP531

FAST TRACK TO SYBASE ENTERPRISE PORTAL Implementing and Managing an e-Business Solution

Build an e-Business solution that is secure and robust. Develop a Web portal application quickly and easily using the Portal Interface and Portal Studio with tools provided by Sybase EP for capturing Web content. Use the Portal Studio to create more complex portlets based on JSP, database result sets, and XML. Portal Studio also deploys portlets and pages to the runtime environment and manages portal content and user accounts. Learn how to provide advanced search capability, localize the portal, and how to create a portlet that aggregates data from two or more external Web sources with point-and-click ease.

COURSE TOPICS: Overview of Sybase EP; JSP- and XML-based architectures; the Portal Interface—an end-user perspective; using portal search services; using Portal Studio to create JSP, XML, HTML, and database portlets; existing JTF portlets within the portal interface; using Portal Studio to manage the Portal interface; developing portlet elements; merging disparate Web content into a single, federated portlet; managing workflow through Portal Studio; and importing and exporting catalogs.

WHO SHOULD ATTEND: Application Developers, Portal Administrators, Technical Managers, Portal Designers.

PREREQUISITES: An understanding of Internet architectures and related technologies such as HTTP, HTML, Java Servlets, and Enterprise JavaBeans.

SEP120

DURATION:
4 Days

FORMAT:
40% Lecture
60% Lab

SKILL:
Introductory

TYPE:
Classroom,
On Site

SYBASE ENTERPRISE SECURITY Implementing Advanced Features

Examine in detail the inner workings of Sybase Enterprise Portal (EP) security. Learn how to implement Sybase EP security in a variety of scenarios, customize any portal application to suit specific business security requirements, and integrate existing security architectures with Sybase EP security. Integrate with an LDAP server or digital certificate authentication server, or provide a single sign-on (SSO) to multiple back-end servers, each with its own respective authentication requirements. Learn how to utilize SSO from any type of portal client, implement fine-grained access control for secure assets of the portal, manage user accounts for greater password security, and configure security auditing for your purposes. Examine user authentication and fine-grained access control from a variety of portal clients, including IIOP clients (Java Servlets or EJB components), traditional Web clients, and Portal Interface clients.

COURSE TOPICS: Introduction to Internet security concepts; the Sybase enterprise security architecture; setting up security; administering Portal Security using the Security Manager; managing user accounts and passwords; authenticating portal users; authorizing access to secure assets of the portal; auditing security events; the security management API (SMAPI); using proxy authentication for SSO; providing self-registration capability; and using an LDAP server for authentication.

WHO SHOULD ATTEND: Application Developers, Portal Managers, Portal Security Officers.

PREREQUISITES: *Fast Track to Sybase Enterprise Portal (SEP120)* or equivalent.

SEP531

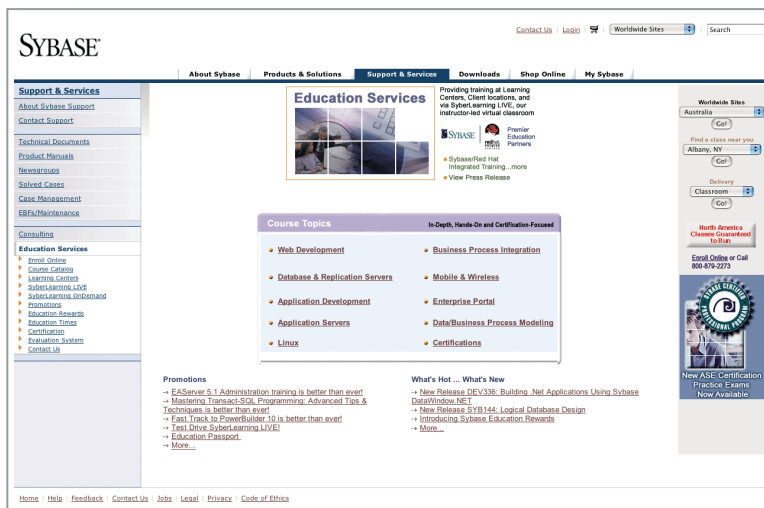
DURATION:
4 Days

FORMAT:
50% Lecture
50% Lab

SKILL:
Expert

TYPE:
On Site

SYBASE.COM/EDUCATION is your source for all Sybase Education information



ALWAYS THE LATEST INFORMATION

Our schedules and courses change from time to time. The web site will provide all the up to date information you need to assess current course details including: course descriptions, number of days, topics covered, prerequisites, who should attend, cost, and Learning Center information.

Please use the website to confirm the latest class schedules and locations.



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THINGS YOU NEED TO KNOW

All of North American Sybase Learning Centers and Authorized Education Partner Location information is available on the Web. In addition, you will find Education Account Manager and Representative contact names, email, and phone numbers so you can reach us whenever you need us.

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Sybase Education requires notification of cancellation at least eleven business days before start date for a full refund. A cancellation number will be provided at time of cancellation notification. No cancellation is confirmed until a cancellation number is issued. If you are not able to attend, please notify us eleven business days before the start date or you will be responsible for full payment. Passport students will be charged 50% of list price for late cancellations or failure to attend. Payment will be required before attending additional Education sessions. Sybase Education reserves the right to cancel up to two weeks prior to start date. Please consider this before purchasing non-refundable travel tickets.

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Your satisfaction with Sybase Education Services is guaranteed. Should you be dissatisfied for any reason, please contact an Education Representative via phone, letter or email within 30 days of the class so that we can take appropriate steps to ensure your satisfaction.

In-Depth, Hands-On & Certification-Focused Training

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