

Get on the Fast Track!

Volume 2:
January, 2008



SYS-ED®

The Computer Education Professionals
Central Mailing Address
PO Box 1213
New York, NY 10156
www.sysed.com

Mainframe



Catalog: SYS-ED and NYS ED

Volume 2: 2008

Identifying Data (Volume and Date of Publication)Cover

Section - 1: SYS-ED

Who is SYS-ED 1
 What is a SYS-ED Course? 1
 Building a Reputation One Course at a Time 1
 Need Information ASAP! 2
 Ongoing Support 2
 SYS-ED Training Center 2
 What Makes a Great Training Center 2
 Private Courses 2
 Mobile Classrooms 2
 Using this Catalog in Conjunction with the SYS-ED Website 3

Section - 2: New York State Department of Education - BPSS

Name of School and Governing Body 3
 Officials and Instructional Personnel 3
 Calendar and Holidays 3
 School Policy and Regulations on Enrollment Dates and Entrance Requirements 3
 Standards of Progress and Leave of Absence 3
 No Grading System / No Granting Credit for Previous Education and Training 3
 Financial Assistance 4
 Student Rights, Responsibilities, and Eligibility 4
 Student Completion and Job Placement 4
 Any Questions or Require Additional Information 4
 Disclosure Statement / Catalog Disclaimer 4
 Complaints and Tuition Refunds 4
 Complaint Procedures 4
 Withdrawal: Notification of the Director 5
 Tuition Reimbursement Fund 5

Section - 3: Enrollment Agreement

Hours of School Operation 6
 Rules and Regulations (including student conduct and dismissal) 6
 Agent Names and Certificate Numbers 6
 Refund Policy 6
 E-Commerce Correspondence 6
 Enrollment Form 7

CALL	CLICK	FAX	Central Mailing Address	
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Volume 2: 2008

Section 4: Mainframe Training: IT Professionals..... 8 - 14

Technology Assessment	http://www.sysed.com/tech_assessments/leader/mainframe_legacy_systems.asp	
SYS-ED Approach	http://www.sysed.com/CatalogsNYS/mainframe/mftrgp04.asp	9
Knowledge Transfer	http://www.sysed.com/CatalogsNYS/mainframe/mftrgp05.asp	9
Course Titles/Topics		11
Course Dates/Fees	http://www.sysed.com/CatalogsNYS/mainframe/mftrgp06.asp	13

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Who is SYS-ED

SYS-ED is committed to:

- helping organizations develop specialized expertise in application software, programming languages, databases, and systems software.
- enabling IT professionals to stay state-of-the-art and be more successful at their jobs.
- providing mid-sized and small businesses with the skillset to utilize software technologies for improving employee productivity and expanding their businesses.

Our consultancy groups average over 30 years of business and application experience across the complete range of computer systems- hardware and software. We understand the real world use of the software and challenges encountered in using computers for the effective processing of data. Our computer specialists will make the difference in the way your organization utilizes its computer technology and maximizes its return on investment.

To become a recognized source of excellence in technical training requires more than commitment, investment, and dedication. It requires the constant questioning and reassessment of how people learn. This is the philosophy which underlies the SYS-ED way of doing business.

What is a SYS-ED Course?

SYS-ED courses are skills-based computer courses; there is no grading system associated with SYS-ED courses. Upon request by the organization which is sponsoring its employee to attend a SYS-ED course, a report regarding the successful completion of workshops/walkthroughs will be provided.

- Each course day includes 7 hours of course instruction and workshop. There are two 15 minute breaks in the morning and afternoon sessions.
- No courses are scheduled on legal holidays.
- An organization will not be allowed to enroll its employees in a SYS-ED catalog course without acknowledging the content of the SYS-ED course as listed in this catalog.
- Enrollments can be made up to any time up to the day prior to the course date.
- Organizations sending their employees to SYS-ED courses will be required to have a licensed version of the software product.

SYS-ED courses and training programs are not intended for the general public. They are intended exclusively for Fortune 1000 corporations, government municipalities, healthcare providers, mid-sized businesses, and business professionals.

Building a Reputation: One Course at a Time

The list of satisfied clients reflects programs and courses we have conducted since 1981. Testimonials can be viewed by typing Areferences® or Ashow me®, from any search field via the SYS-ED website - www.sysed.com.

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Need Information ASAP!

If you have an emergency training requirement, go to the homepage of the SYS-ED website at www.sysed.com, and invoke the "Special Requests" from the "Support Download" menu and type in your request. Or have a SYS-ED Training Consultant contact you by using the "Correspondence" menu. Worst case, you can always contact us via telephone at 212-564-9147.

Ongoing Support

After the course is over, students are welcome to stay in contact with SYS-ED and ask questions. On-line help is available through our website at www.sysed.com.

SYS-ED Training Center

The SYS-ED training center is conveniently located in close proximity to all major subway lines (B,D,F,1,2,3,4,5,6, and PATH), commuter railroads - Grand Central and Pennsylvania Station, and Commuter bus lines - PATH.

All computers are networked with access to a high speed broadband line and 3 networked printers. The building lobby has a snack bar and public telephones. The training facility is accessible to handicapped individuals.

What Makes a Great Training Center

- **Cross-Platform Expertise** - PC, Macintosh, internetworking, web development, client/server, IBM mainframe, ORACLE, UNIX, Java, and .NET training, and consulting.
- **Talented Instructors** - Who are systems, applications, and business solution experts certified in their area of expertise and who know how to communicate with and guide adult learners. Instructors who consistently score "excellent" ratings on student evaluations.
- **Hands-on Training** - Each student has his/her own computer for maximum involvement.
- **Small Classes** - Everyone receives personalized attention from our instructors.
- **Modern Equipment** and the latest software releases, to optimize the learning experience.
- **Comprehensive, Feature-packed Classes** presented in a logical, step-by-step format with ample opportunity for practice and reinforcement of what you learned.
- **Excellent Courseware** - SYS-ED courseware and training aids used in class will serve as valuable reference material back on the job.
- **Support for Old Software** - We continue to support/train on legacy software. This allows us to help you to migrate/upgrade your mission critical software and systems.

Private Courses

SYS-ED has the ability to provide tailored private courses. Our instructors will incorporate actual problems in your organization with the material they are presenting.

- Attendees who have not mastered the subject matter may repeat the course free of charge.
- Organizations, which use SYS-ED for a private training, have the right to send new hires to that course through our New York schedule at a special fee.

We can also provide a custom program combining elements of both private and public training options.

Mobile Classrooms

SYS-ED has mobile/portable classrooms - computer hardware, network hubs, wiring, multi media projectors, etc. - which can be used for delivering the SYS-ED courses. These courses can be delivered at your locations or through hotel/conference facilities.

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Using this Catalog in Conjunction with the SYS-ED Website

The course offerings included in this catalog have been reviewed and approved by the New York State Department of Education. The course titles and topics can also be viewed through the SYS-ED search engine.

In order to receive additional, updated or customized information on the courses listed in this catalog, go to the SYS-ED website at www.sysed.com and access the search engine in the upper left hand corner of the page. Type in the word/term that you are interested in and click on the Search button. Information can then be printed directly from your computer screen. E-mails can also be directed to a SYS-ED Director or licensed Private School Agent from SYS-ED websites.



Name of School and Governing Body

SYS-ED is sanctioned by the New York State, Bureau of Proprietary School Supervision. SYS-ED has been authorized by the State of New York to develop and conduct computer seminars since 1982.

Officials and Instructional Personnel

David Shapiro, Director, Registered Business School Teacher, and Private School Agent
 BA, Union College, MBA, Cornell University

David Silverberg, Director, Registered Business School Teacher and Private School Agent
 BS, Brooklyn College, MS, Computer Science, Pratt Institute, MS, Management, Polytechnic Institute

Mr. Shapiro and Mr. Silverberg have over 50 years of experience across the complete range of computer hardware and software. They have been teaching seminars for Fortune 2000 corporations, consulting companies, government municipalities, and healthcare facilities since 1981. They are involved in the daily operation of SYS-ED. Updated information on instructional personnel is listed on the SYS-ED website: <http://www.sysed.com/insplace.asp>

Calendar and Holidays

Courses are not offered on the standard Federal holidays: President-s Day, Memorial Day, July 4th, Labor Day, Thanksgiving, and Christmas.

School Policy and Regulations on Enrollment Dates and Entrance Requirements

No one is allowed to enroll in a SYS-ED course without receiving this catalog, reviewing course topics, and having a consultation with a SYS-ED Director. Enrollment can be made at any time up to the start of the course.

Standards of Progress and Leave of Absence

There are no standards of progress associated with SYS-ED's skill-based courses. At the discretion of the organization sending its employee to the course, an optional pre and post course assessment will be implemented. In the event of a leave of absence or tardiness, a student may attend the next scheduled course in order to make up for any subject matter which has been missed.

No Grading System / No Granting Credit for Previous Education and Training

SYS-ED courses are not intended for the general public and accordingly there is no "pass rate" associated with the school's graduates for license of any certificate exam required by state or city for employment. There is no policy for granting credit for previous education and training which can be applied to a SYS-ED course.

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Financial Assistance

SYS-ED offers no financial aid; SYS-ED courses are not intended for the general public.

Student Rights, Responsibilities, and Eligibility

Student responsibilities are based upon the code of conduct required by the respective organizations/employers who will be sponsoring/paying for them to attend a SYS-ED course.

Student Completion and Job Placement

It is SYS-ED policy not to engage in any job placement or posting of job openings.

SYS-ED offers no data regarding:

- Student completion and job placement.
- School's graduates for license of any certificate exam required by state or city for employment.

Any Questions or Require Additional Information

David Shapiro and David Silverberg are the designated SYS-ED employees who will be available in assisting students in obtaining information. Information can also be requested from SYS-ED websites at support@sysed.com.

Disclosure Statement / Catalog Disclaimer

Prior to enrollment in a SYS-ED course, the student will be required to review this catalog for factual information. The student should be aware that some information in the catalog may change. It is recommended that students considering enrollment, check with the school director to determine if there is any change from the information provided in the catalog. In addition, a catalog will contain information on the school's teaching Personnel and courses/curricula offered. Please be advised that the State Education Department separately licenses all teaching personnel and independently approves all courses and curricula offered. It is again recommended that you check with the school director to determine if there are any changes in the courses/curricula offered or the teaching personnel listed in the catalog.

Complaints and Tuition Refunds

Complaints can be addressed at any time to a SYS-ED Director, David Shapiro or David Silverberg, or the course instructor. Organizations and individuals who are not satisfied with the quality of a SYS-ED course can either:

1. Retake the course free of charge.
2. Return the course workbook by the middle of the course and execute a statement stating that he/she will be leaving the course. The student will receive a full refund within 30 working days of the written complaint.

In addition to this complaint and tuition refund policy, SYS-ED adheres to the complete statement of the complaint procedures and tuition refund policy mandated by the New York State Department of Proprietary School Supervision.

Complaint Procedures

If you are or were a student or an employee of a Licensed Private or Registered Business School in the State of New York and you believe that the school, or anyone representing the school, has acted unlawfully, you have a right to file a complaint with the New York State Education Department.

You may make complaints about the conduct of the school; advertising; standards and methods of instruction; equipment; facilities; qualifications of teaching and management personnel; enrollment agreement; methods of collecting tuition and other charge; school license or registration; school and student records; and private school agents.

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http://www.mainframetrainingbysysed.us		http://www.mfutilitiesandtoolsbysysed.us		
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The steps for filing a complaint are:

1. Write to the New York State Education Department, Bureau of Proprietary School Supervision:
 Investigation & Audit Unit / 116 West 32nd Street, 5th floor / New York, NY 10001
2. Telephone the Department at (212) 643-4760 requesting an interview for the purpose of filing a written complaint. Bring all relevant documents with you to the interview, including an enrollment agreement, financial aid application, transcripts, etc. An investigator from the Department will meet with you and go through your complaint in detail.

If you cannot come for an interview, send a letter or call the office to request a complaint form. You must complete and sign this form and mail it to the office. Please include with it copies of all relevant documents. You should keep the originals. You must file a complaint within two years after the alleged illegal conduct took place. The Bureau cannot investigate any complaint more than two years after the date of the occurrence. The investigator will attempt to resolve the complaint as quickly as possible and may contact you in the future with follow-up questions. You should provide all information requested as quickly as possible; delay may affect the investigation of your complaint. When appropriate, the investigator will try to negotiate with the school informally. If the Department determines that violations of law have been committed and the school fails to take satisfactory and appropriate action then the Department may proceed with formal disciplinary charges. In addition to filing a complaint with the Department, you may also try to resolve your complaint directly with the school. Use the school's internal grievance procedure or discuss your problems with teachers, department heads, or the school director. We suggest that you do so in writing and that you keep copies of all correspondence to the school. However, the school cannot require you to do this before you file a complaint with the New York State Education Department. If you do file a complaint with the Department, please advise the Bureau of any action that you take to attempt to resolve your complaint.

Withdrawal: Notification of the Director

The failure of a student to notify the director in writing of withdrawal delay refund of tuition due pursuant to Section 5002 of the Education Law.

Tuition Reimbursement Fund

The Tuition Reimbursement Fund is designed to protect the financial interest of students attending proprietary schools. If a school closes while you are in attendance prior to the completion of your educational program then you may be eligible for a refund of all tuition expenses, which you have paid. If you drop out of school prior to completion and you file a complaint against the school with the State Education Department, you may be eligible to receive a tuition refund if the State Education Department is able to provide factual support that your complaint is valid and to determine that there was a violation of Education Law or the Commissioner's Regulations as specified in Section 126.17 of the Commissioner's Regulations.

To file a claim to the Tuition Reimbursement Fund, you must first file a complaint with the Bureau of Proprietary School Supervision, New York State Education Department, 116 West 32nd Street, 5th floor, New York, NY 10001. The staff of the State Education Department will assist you in the preparation of a tuition reimbursement form. A sample of this form will be provided to you upon enrollment at SYS-ED.

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Catalog: SYS-ED and NYS ED

Volume 2: 2008

Enrollment Agreement

Hours of School Operation:

Each course day consists of 7 hours of lecture and workshop. There are two 15 minute breaks in the morning, an hour for lunch and two 15 minutes breaks in the afternoon. Students are welcome to stay after class for extra workshop and instructor assistance free of charge.

SYS ED agrees to enroll the undersigned in the selected courses(s).

Rules and Regulations (including student conduct and dismissal):

All prices listed anywhere in this catalog include a non refundable \$150 registration fee per course. Supplies are optional and are the responsibility of the student to purchase. The course fee and additional related costs are due upon registration. A student may be terminated by the school for failure to conduct himself/herself in an acceptable manner or by a failure to meet all financial obligations. Each student who successfully completes a course will receive a certificate of completion.

Agent Names and Certificate Numbers:

Agent	Certificate Number
David Shapiro	

Agent	Certificate Number
David Silverberg	

Refund Policy:

A student who cancels or is discontinued within seven days of signing the enrollment agreement and at least two weeks before scheduled instruction begin, receives all monies paid with the exception of the non refundable registration fees. Any refunds to students who cancel, withdraw, or are dismissed shall be made within 30 days of such action. SYS-ED requires that notice of cancellation or withdrawal be given in writing. When the student withdraws from a course without giving written notice, the effective date of cancellation is the last date of the scheduled class. An enrolled student who by the middle of a course returns his/her course materials and informs either the instructor or a SYS-ED administrative aid that a course does not meet their learning objectives or does not meet their expectations will receive a full course refund. The failure of a student to notify the director in writing of withdrawal may delay refund of tuition due pursuant to Section 5002 of the Education Law.

E-Commerce Correspondence:

E-mail correspondence and web based electronic enrollment in SYS-ED courses are collected in a database and the IP addresses are analyzed for its origin and source. It is company policy to cooperate with law enforcement agencies and prosecute malicious and rogue actions in full compliance with federal and state regulations.

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http://www.mainframetrainingbysysed.us		http://www.mfutilitiesandtoolsbysysed.us		
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Enrollment Form

Sponsor - Send Invoice to.							
Organization:				Contact:			
Address:			City:			State Zip:	
E-mail:			Phone:			Fax:	
Payment							
Check	\$	Cash	\$	Money Order	\$	PayPal	\$
Credit Card	<input type="checkbox"/> Amex	<input type="checkbox"/> Discover	<input type="checkbox"/> MasterCard	<input type="checkbox"/> Visa	Amount:	\$	
	Card #			Expiration Date			
Billing Address							
First name:				Last name:			
Address:				City:			
State:		Zip:		Phone:		Fax:	
Course Details							
Course ID	Course Title			Duration	Fee		
Student Details - Send Confirmation to.							
Student 1							
First Name:				Last Name:			
SS#				Date of Birth			
Address:			City:			State Zip:	
E-mail:			Phone:			Fax:	
Student 2							
First Name:				Last Name:			
SS#				Date of Birth			
Address:			City:			State Zip:	
E-mail:			Phone:			Fax:	
Student 3							
First Name:				Last Name:			
SS#				Date of Birth			
Address:			City:			State Zip:	
E-mail:			Phone:			Fax:	

I have read the entire agreement, accept a copy, and certify that there have been no verbal promises or commitments other than those appearing hereon. This agreement is not effective until it has been accepted by an authorized representative of the school. I acknowledge that I have received a copy of the disclosure material and school catalog containing the rules and regulations of the school. The student has been presented with the competency assessment specific to the curriculum that they are requesting to enroll in. SYS-ED provides no representations whatsoever regarding employment, and in fact, its stated policy is not to provide assistance in procuring employment for its students.

Signature: _____ Date: _____

SYS-ED reserves the right to deny enrollment in its courses. Competency assessment questions, employer verification of the experience, and a interview by a SYS-ED Director are the criteria for precluding enrollment.

Mainframe Training for IT Professionals

**SYS-ED® – Legacy Value Added
 Training Experts Mainframe Training**

Stepping Up to the Challenge

Major players in the software industry [IBM](#), [Computer Associates](#) and [Compuware](#), [Micro Focus](#), and [Serena Software](#) are defining strategies for and with their customers to retain and extend the value of legacy systems. Each software company has a different proprietary strategy for modernizing legacy systems to new technologies without a significant rewriting of the code. De rigueur competition among these software companies in hybrid hardware and software environments can make it difficult for a mainframe shop to assess and migrate to new platforms and technologies in order to lower operation and maintenance costs. Tactical issues and decision-making for enabling a mainframe to co-exist with technologies such as [J2EE](#), [.NET](#) and web services will be problematic for the client organization. The movement to the end game is straight forward: accurately model the business rules embedded in legacy systems in order to quantify the risks in time and cost associated with migration. Then automate the modernization process.



Technology Driven IT Training

The common thread among all the software companies is SYS-ED. SYS-ED systems consultant instructors have over 30 years of been there done that experience in mainframe IT (it was DP when we started in the business!) and more specifically programming languages, utilities and development tools, and systems software. Application developers from the software companies routinely inquire about SYS-ED's tailored mainframe consultancy derived courses and courseware in order to master the nuances of the software and the underlying architecture and nature of each other's source code.

Updated information is available from:

http://www.sysed.com/tech_assessments/leader/mainframe_legacy_systems.asp

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SYS-ED Approach to Mainframe Training

SYS-ED’s commitment to excellence and roll-up-your sleeves work ethic has kept us on the leading edge of mainframe programming skills, programming languages, and systems software technology. Our independence from the software companies and first generation mainframe consultancy expertise provides a unique perspective to unbiased mainframe training and ongoing support. Our mainframe legacy training is comparable to the courses offered by IBM, with the value added standards mandated by the New York State Department of Education.

The mainframe course offerings included in our catalog have been reviewed and approved by the New York State Department of Education. The course titles and summary topics are also available through the SYS-ED search engine.

Additional information is available from the following urls:

www.mainframetrainingbysysed.us	
www.cicstrainingbysysed.us	www.coboltrainingbysysed.us
www.db2trainingbysysed.us	www.imstrainingbysysed.us
www.rexxtrainingbysysed.us	www.vsamtrainingbysysed.us



Mainframe - Knowledge Transfer

SYS-ED’s mainframe legacy courses use industry standard textbooks in conjunction with its own consultancy derived courseware, sample programs, library of workshops, and tailored training aids.

SYS-ED’s curriculum is based upon classic principles of knowledge transfer and the training methodologies of Mike Murach & Associates text books. The Murach books have an international reputation for excellence and wide acceptance in trade schools, colleges, and universities. We have applied the theory from the New York State Department of Education Bureau of Proprietary School Supervision mandated courses to our presentation of subject matter.

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http://www.mainframetrainingbysysed.us		http://www.mfutilitiesandtoolsbysysed.us		
http://www.cicstrainingbysysed.us		http://www.coboltrainingbysysed.us		

Sample

 <p>Murach's Mainframe COBOL ISBN 1-890774-24-3 Mike Murach, Anne Prince, and Raul Menendez</p>	 <p>Technology Driven IT Training</p>	<p>Example: Search Engine Course Title Major Topics</p> <p>Augmented by Consultancy Derived Content</p> <p>Advertisement: http://www.sysed.com/tech_assessments/CobolAd.htm</p> <p>Website with factual information: http://www.coboltrainingbysysed.us</p> <p>SYS-ED courseware and training aids have been developed from consultancy assignments and private courses conducted for Fortune 1000 companies, government municipalities, healthcare providers, and consulting firms.</p>
<p>Murach COBOL Instructor Guide</p>	<p>To assist in skillset enhancement and facilitate knowledge transfer.</p> <p>Augmented by the SYS-ED courseware library.</p>	<ul style="list-style-type: none"> 1-Table of Contents 2-Copyright Acknowledgement 3-Performance Objectives 4-Chapter 1: Sample 5-Chapter 2: Sample 6-Appendix: Training Aid 7-Workshop 8-Index

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<p>http://www.mainframetrainingbysysed.us</p>		<p>http://www.mfutilitiesandtoolsbysysed.us</p>		
<p>http://www.cicstrainingbysysed.us</p>		<p>http://www.coboltrainingbysysed.us</p>		

Mainframe: Course Titles/Topics

Course ID	Course Title	Topics
MFPRS01	Data Processing Fundamentals	Introduction and history • Programs and programming languages • Program components • Data representation • Field types • Computer components • Memory/storage/channels • CPU processing • Operating systems • Job/task/data management • TSO and VTAM • Dataset characteristics • Methods of organization • Design and analysis • Structured programming • Programming cycle
MFPRS03	z/OS JCL	Running an MVS job • Job management • Program execution • Sequential data sets • Creating disk data sets • Sort utility • Running complex jobs • Non sequential files • Catalog procedures • Advanced JCL usage • Compiling and linking • JES control statements • Running in a network
MFPRS04	TSO/ISPF	TSO ISPF start up • Viewing • Setting terminal characteristics and PF keys • Editing • Compiling programs • Examining output • Data set and library maintenance • VSAM utility • Examining a compiler listing • Listing the catalog entries for one user • TSO testing commands • Command procedures (CLISTs) and dialogs • Writing a CLIST to allocate test files • Using a CLIST requiring variables • Writing a dialog to process terminal output
MFPRG04	COBOL Programming	Introduction • COBOL essentials • Writing a program that prepares a report • Design, code, and test a structured program • Features for structured coding • How to define, move, and initialize fields • Intrinsic functions and arithmetic statements • Working with dates • Working with characters • Tables • Copy members and subprograms • Concepts and terms for working with disk files
MFPRG05	COBOL Programming: Advanced	Sequential files • Indexed files • Relative files • Sort/merge feature • Develop interactive programs • Compile and test a program on an IBM mainframe • Develop interactive programs on an IBM mainframe • Develop database programs on an IBM mainframe • How to become an effective maintenance programmer • Object-oriented COBOL
MFPRG07	Assembler Programming	Introduction to Assembler • Assembler and macro instructions • Addressability • Data definition • Assembler listings • Machine instructions: general • Branching • Editing translating • Loading instructions • Arithmetic operations • File handling • Solving dumps
MFSYS09	REXX Scripting for z/OS	REXX syntax • Variables • Expressions • Programming techniques • Functions and subroutines • Built-in functions • Conversing with the screen • Advanced topics • Debugging information • TSO/E external functions
MFSYS10	REXX Scripting for z/OS: Advanced	Data stack and queue • Queue and push REXX instructions • REXX components in non TSO address space • General data set and file I/O services Execio • Disk-read and disk-write usage • Accessing the REXX variable chain SHVBLOCK • Replaceable routines • Usage of EVALBLOCK • Programming with REXX • Using dialog manager with REXX • Sharing data with COBOL applications • Job control application

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Course ID	Course Title	Topics
MFVSM01	VSAM for Programmers	Access method services • VSAM data sets • VSAM performance • Case study • Workshop • VSAM datasets • Application programming • Using access method services • Using sequential and direct access • Alternate indexes and paths • VSAM security and data security • Using access method services • Program using AIX sequentially
MFVSM03	VSAM Performance and Tuning	Definition of performance • KSDS structure • Tuning at the AMS define cluster level • AMS define cluster • String processing • Complex datasets • Cluster insert activity • Performance programming • Performance monitoring
MFCIC01	CICS Transaction Server Fundamentals	Introduction and overview • CICS as an on-line system • CICS structure and components • Facilities and functions • Coding • Passing data • CICS web support • CICS interface to DB2
MFCIC02	CICS Transaction Server: Command Level Programming	CICS concepts and terms • Introduction to CICS • Designing a CICS program • Creating a BMS Mapset • BMS Mapset and symbolic map • Coding a CICS program • Testing a CICS program • Temporary storage control • CICS commands and programming techniques • Program design • Systems overview • Menu program • Maintenance program • Processing files sequentially
MFCIC03	CICS Transaction Server: Command Level Programming - Advanced	VSAM alternate indexes • File processing features • DB2 databases • CICS control features • CICS intercommunication features • Design, code, and test • A modular CICS program • CICS web programming • Maintenance programmer's task
MFIMS01	IMS: Fundamentals	Rules and terminology • Access methods • Comparison of IMS access methods • Secondary indexing • Logical view • Logical relationships with IMS • Control blocks • IMS complementary products • IMS testing and productivity aids • Other IMS facilities • Utilities • IMS DB/DC data dictionary
MFIMS01A	IMS: DB DL/1 Programming	Components of IMS DL/1 • IMS DL/1 structure • Program structure and interface to IMS/VS • Database retrieval calls • Data base update calls • Advanced techniques • Characteristics of a DL/1 data base • Logical relationships and searching • System service calls • Testing • DL/1 debugging aids • DL/1 trace
MFPRS27	DB2 UDB: Application Programming	DB2 fundamentals • DB2 objects • Structured query language • Retrieval operations • Retrieval operations: built-in functions • Other retrieval operations • Update operations • QMF: Query Management Facility • Locking and performance • Explain • Coding considerations • Embedded SQL • Program design
MFRDB23	DB2 UDB: Application Programming - Advanced	SQL programming • Triggers • Creating and using user-defined functions • Creating and using distinct types • Dynamic SQL • Stored procedures • Tuning and performance • Optional - programming considerations for CICS • Loading data into DB2 tables • DB2 threads • Concurrency issues • Accessing distributed data

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Mainframe: Course Dates/Fees

Course ID	Course Title	Duration	Fee	New York Dates
Programming Skills				
MFPRS01	Data Processing Fundamentals	4 days	\$1,980	2008: 7/1-4 2009: 1/5-8 8/10-13 2010: 1/4-7 8/16-19
MFPRS03	z/OS JCL	5 days	\$2,475	2008: 2/11-15 6/16-20 10/6-10 2009: 2/9-13 6/8-12 10/5-9 2010: 2/15-19 6/14-18 10/4-8
MFPRS04	TSO/ISPF	4 days	\$1,980	2008: 2/19-22 8/19-22 2009: 2/17-20 8/18-21 2010: 2/23-26 8/24-27
Programming Languages				
MFPRG04	COBOL Programming	5 days	\$1,995	2008: 1/28-2/1 3/24-28 5/19-23 7/21-25 10/20-24 11/24-28 2009: 1/26-30 3/23-27 6/1-5 8/3-7 10/19-23 12/7-11 2010: 2/1-5 3/29-4/2 6/7-11 8/9-13 10/18-22 12/13-17
MFPRG05	COBOL Programming: Advanced	5 days	\$1,995	2008: 2/4-8 6/2-6 10/20-24 2009: 2/2-6 6/8-12 10/26-30 2010: 2/8-12 6/14-18 11/1-5
MFPRG07	Assembler Programming	5 days	\$2,475	2008: 1/7-11 7/28-8/1 2009: 1/5-9 7/6-10 2010: 11/11-15 7/12-16
MFSYS09	REXX Scripting for z/OS	3 days	\$1,685	2008: 9/29-10/1 2009: 5/4-6 11/16-18 2010: 5/10-12 11/22-24
MFSYS10	REXX Scripting for z/OS: Advanced	2 days	\$1,190	2008: 10/6-7 2009: 5/11-12 12/14-15 2010: 5/17-18 12/20-21
VSAM				
MFVSM01	VSAM for Programmers	3 days	\$1,485	2008: 3/17-19 6/2-4 10/27-29 12/8-10 2009: 3/16-18 7/13-15 11/16-18 12/7-9 2010: 3/22-24 8/30-9/1 11/22-24 12/13-15
MFVSM03	VSAM Performance and Tuning	2 days	\$1,190	2008: 3/6-7 9/18-19 2009: 3/5-6 9/17-18 2010: 3/11-12 9/23-24

Course ID	Course Title	Duration	Fee	New York Dates
CICS				
MFCIC01	CICS Transaction Server Fundamentals	2 days	\$1,195	2008: 10/2-3 2009: 10/1-2 2010: 10/7-8
MFCIC02	CICS Transaction Server: Command Level Programming	5 days	\$2,475	2008: 2/25-29 6/16-20 10/27-31 11/28-12/2 2009: 2/23-27 6/8-12 11/2-6 12/14-18 2010: 3/1-5 6/14-18 11/15-19 12/20-24
MFCIC03	CICS Transaction Server: Command Level Programming - Advanced	3 days	\$1,685	2008: 1/15-17 10/6-8 12/8-10 2009: 1/13-15 7/20-22 12/14-16 2010: 1/19-21 7/26-28 12/20-22
IMS				
MFIMS01	IMS: Fundamentals	3 days	\$1,485	2008: 10/6-8 2009: 10/5-7 2010: 10/13-15
MFIMS01A	IMS: DB DL/1 Application Programming	5 days	\$2,475	2008: 1/7-11 7/7-11 12/15-19 2009: 1/5-9 7/6-10 2010: 1/11-15 7/12-16
DB2				
MFPRS27	DB2 UDB: Application Programming	5 days	\$2,475	2008: 7/28-8/1 12/1-5 2009: 3/30-4/3 8/10-14 12/14-18 2010: 4/5-9 8/16-20 12/20-24
MFRDB23	DB2 UDB: Application Programming - Advanced	4 days	\$2,180	2008: 10/6-9 2009: 5/11-14 12/14-17 2010: 5/17-20 12/20-23








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