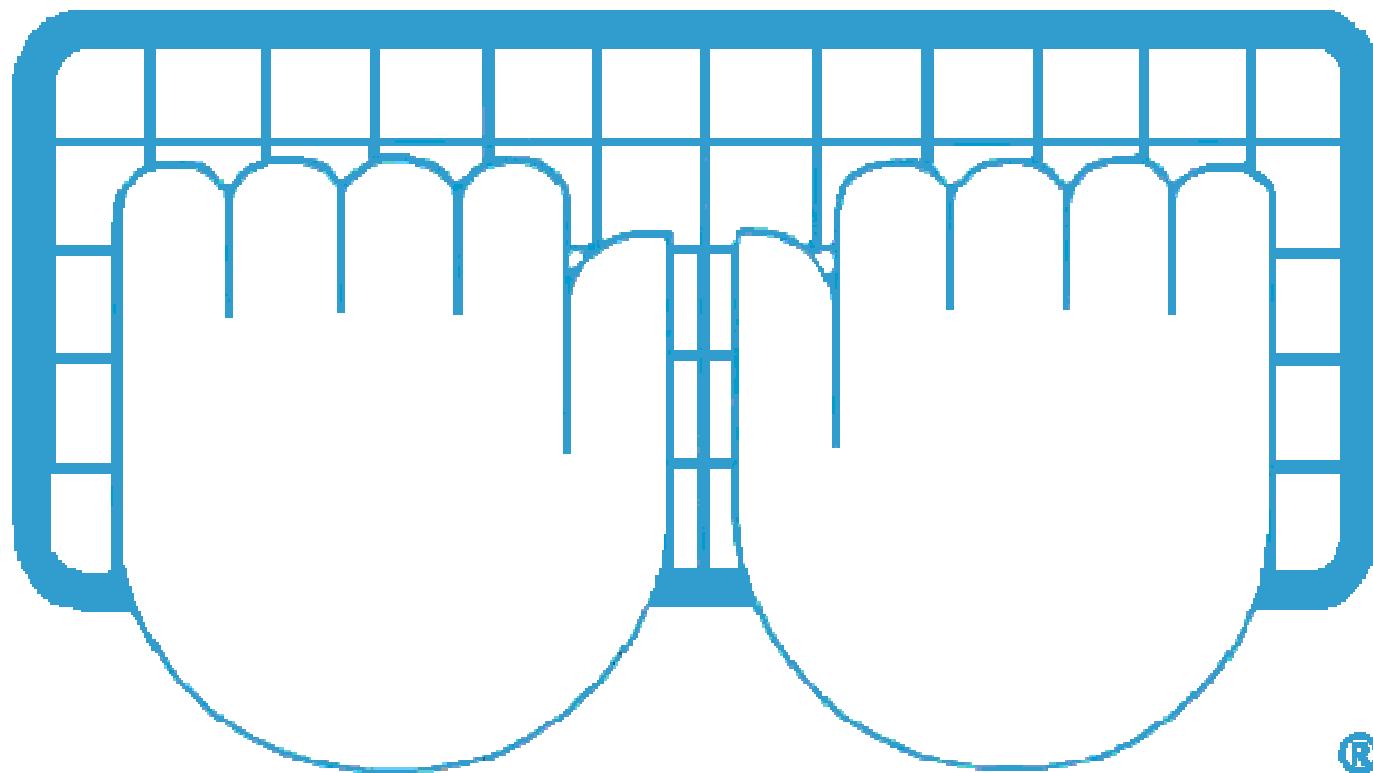


Web-based Training by SYS-ED



®

Computer Education Techniques, Inc.

Extension of the Company Mission - 1



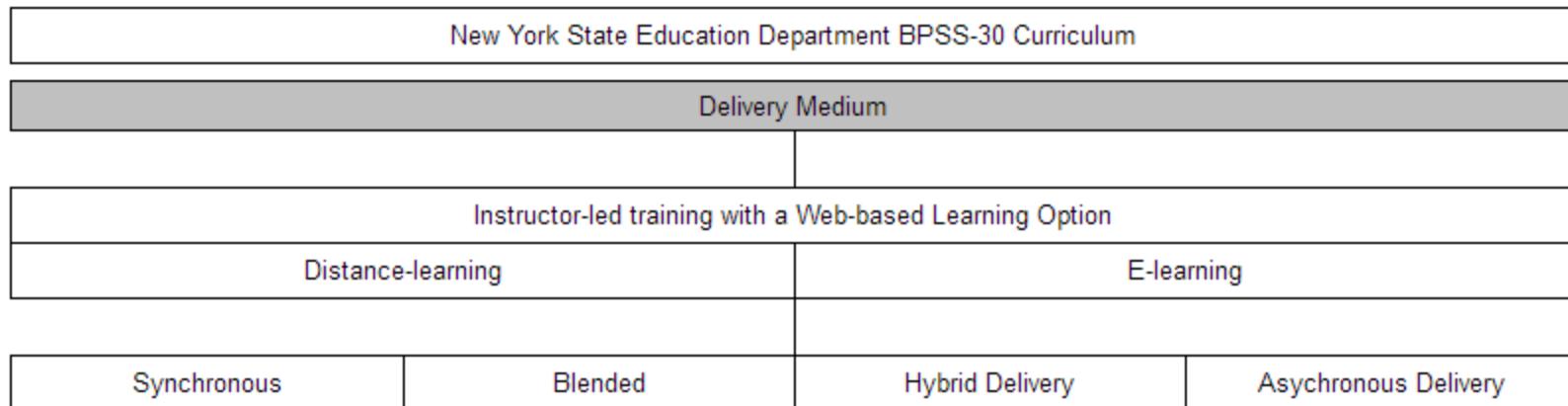
- SYS-ED has extended its instructor-led classroom training and its courseware library to a web-based delivery medium.
 - presentation slides, video conferencing, HTML pages, live chat, and podcast.
 - Utilization with authoring and delivery systems.
- Enrollment in a course is predicated upon an interview with a company director.

Extension of the Company Mission - 2



- In conjunction with presenting an instructor-led course at the client location, courseware is organized for future use in a web-based infrastructure and delivery medium.
- All SYS-ED information technology courses have a common foundation.
 - Lesson plan
 - Presentation outline
 - Performance objectives
 - Examples
 - Workshop objectives
 - Exercises
 - Review questions
 - Validation assessment

Extension of the Company Mission - 3



SYS-ED Web-based Training Service - 1



- SYS-ED's web-based learning is designed to:
 - Help organizations develop specialized expertise in computer applications, operating systems, networking administration, programming skills, application development, and systems software.
 - Enable business professionals, webmasters, and IT professionals to remain state-of-the-art and be more successful at their jobs.
 - Provide midsized and small businesses with the skillset to utilize software technologies for improving employee productivity and growing their business.

SYS-ED Web-based Training Service - 2



- SYS-ED's web-based training applies the principles of adult learning theory to the presentation of information technology subject matter.
 - The content is modular and extensible.
- The service is efficient in terms of presentation and graphics to minimize bandwidth limitations.
- Value added service is available through categorized and software specific SYS-ED websites.

Courseware Library and Knowledge Base



- The courseware library and knowledge base are important components of SYS-ED's web-based training service.
 - Student handouts, sample programs, skeleton programs, workshops, and training aids.
- The courseware incorporates industry standard subject matter and consultancy derived content and techniques.
 - Modular courseware is assembled for a unified presentation of the lesson plans: performance objectives, workshop objectives, examples, and exercises.
- Courseware is updated prior to use.

Open Source Moodle



- SYS-ED uses open source Moodle as a framework for web-enabling its courseware library.
- Distance-learning courses are an extension of the SYS-ED schedule.
- E-learning is developed and tailored to client-specific operational objectives.

SYS-ED and Moodle: Web-based Content Delivery





Introducing..... Moodle!

Moodle is an alternative to proprietary commercial online learning solutions, and is distributed *free* under open source licensing. An organization has complete access to the source code and can make changes if needed. Moodle's modular design makes it easy to create new courses, adding content that will engage learners.



modular object-oriented dynamic learning environment

moodle

Moodle's intuitive interface makes it easy for instructors to create courses. Students require only basic browser skills to begin learning.

Authoring and Presentation Systems - 1



- SYS-ED works with web authoring and delivery systems.
 - Open Source - CourseLab
 - Open Source - eXe and Xerte
 - Proprietary - Centra
 - Other Retail Services - Webex and Citrix
- There is debate within accredited educational institutions and client organizations as to what the emerging standard will be in terms of authoring systems and acceptable presentation of web content.

Authoring and Presentation Systems - 2



- The opinions and policy of management regarding authoring and web presentation systems have been incorporated into its evolving business model.
- Information on how the SYS-ED training service is being developed to meet regulations in the United States and international standards is available at www.computeredtech.com.

Quality of Service: Bandwidth



- Prior to accepting a distance-learning assignment, it is standard practice to review the client's transmission delivery infrastructure.
- The prospective client will be required to confirm the external quality of service to the geographic locations of the training and internal service for multi-directional delivery of data through the local area network to the intended audience.

Quality of Service: Classroom Management Systems



- An important component of a quality distance-learning service is the utilization of a classroom management system.
- At the present time, most classroom management systems are designed for utilization in local or wide areas networks within a single secured organization.
- There can be practical limitations and shortcomings when utilizing a classroom management system in a distance-learning environment across geographically dispersed locations.
- This issue is addressed prior to entering into a contract to conduct a course.

SYS-ED

Web-based Training



- The availability of SYS-ED web-based courses can be reviewed from:
 - 1 - SYS-ED course search engine.
 - 2 - SYS-ED categorized and software specific websites.
 - 3 - SYS-ED Advanced Search.
- A central location for reviewing web-based curriculum is:
<http://www.sysed.com/dlearn/distlearn.asp>
- Not all courses are suitable and available for web-based delivery of subject matter.

Walkthrough - Example

**Reviewing and Enrolling in
a SYS-ED Web-based Course**

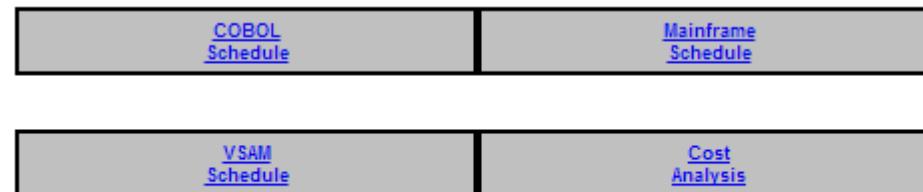
SYS-ED Distance-learning Schedule



1. Starting from a software specific website.

Example - COBOL Programming

- Starting from www.coboltrainingbysysed.us, invoke the COBOL Schedule button.



TSO/ISPF, VSAM, and z/OS are registered trademarks of IBM Corporation.

- The SYS-ED COBOL schedule will be presented.

SYS-ED Schedules



- Invoking the Web-based Training icon will indicate whether the course is available through the SYS-ED schedule in a distance-learning format.



- When the Course ID and Course Title are presented on screen with "CONTENT AND OBJECTIVES", this indicates that the course is available in conjunction with the SYS-ED schedule.
- A course outline can be requested using the online form.

Availability of a Course in a Web-based Delivery Medium



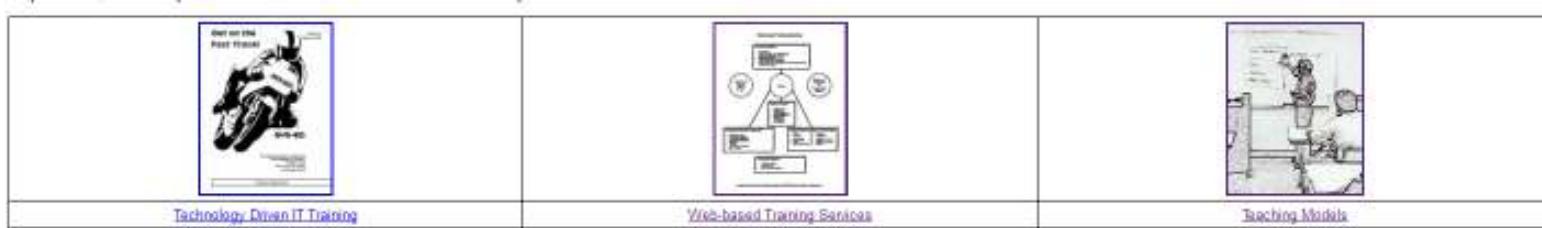
- When the distance-learning center screen is presented after being invoked from a Course ID row selection; this indicates that the course is not available in a distance-learning delivery medium in conjunction with the SYS-ED schedule.
- A telephone consultation can be requested to ascertain whether the course can be presented on a private basis through a web-based delivery medium.

SYS-ED Web-based Training Schedule



2. Starting from the course search engine.

www.sysed.com/shared/search_engine.asp

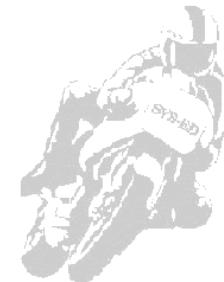


Initiate a query for researching COBOL training.

  [Advanced search](#)

The results of a course search on the COBOL keyword are displayed on screen.

Course Search Engine: COBOL - Example - 2



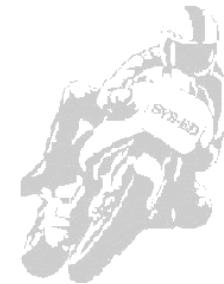
Application Development :: .NET Programming		
Course ID	Course Title	Duration
MSPRG73	COBOL .NET	4 days
Application Development :: Java Programming		
Course ID	Course Title	Duration
WBDEV19	Java for COBOL Programmers	5 days
Application Development :: Java Enterprise Development		
Course ID	Course Title	Duration
INPR2118	Java Programming - Migrating from COBOL	4 days
z/OS Mainframe :: Programming Languages		
Course ID	Course Title	Duration
MFPRG04	COBOL Programming	5 days
MFPRG05	COBOL Programming - Advanced	5 days
MFPRG06	COBOL Debugging	3 days
MFPRG10	COBOL Programming - Intermediate	5 days
MFPRG39	COBOL Object Oriented	5 days
MFPRG45	Structured COBOL	2 days
MFPRG51	COBOL Programming - Basic	5 days
MFPRG52	COBOL Programming: Workshop	5 days
MFPRG53	COBOL Programming - Intermediate	5 days
MFPRG54	COBOL Programming - Intermediate: Workshop	2 days
MFPRG55	COBOL Programming - Advanced	5 days
MFPRG56	COBOL Programming - Advanced: Workshop	2 days
MFPRS09	Enterprise COBOL	3 days
MFPRS23	COBOL Dumps and Debugging	3 days
MFRPG80	COBOL Programming - Review	2 days
MSPRG83	COBOL Optimization Techniques	3 days
MSPRG84	COBOL Programming Techniques	2 days
z/OS Mainframe :: PC Emulation of Mainframe Software		
Course ID	Course Title	Duration
MFPCE01	Micro Focus Visual COBOL for Mainframe Applications	3 days
MFPCE02	Micro Focus Visual COBOL Maintenance and Testing	2 days
z/OS Mainframe :: Utilities and Development Tools		
Course ID	Course Title	Duration
MFPRS36	COBOL Debugging with Abend-AID - Compuware	2 days

Course Search Engine: COBOL - Example - 3



- The screen on the next page is presented by invoking Course ID - MFPRG04 COBOL Programming from the search query table.
- This information is provided:
 - Duration
 - Fee
 - Audience
 - Dates
 - Major Topics

Course Search Engine: COBOL - Example - 4



MFPRG04

[Enrollment](#)
[Home](#)



[Distance-learning Center](#)
[Submit IT Questions](#)
www.coboltrainingbysysed.us

COBOL Programming

DURATION: 5 days

FEE: \$2,475

Call for group fee.

AUDIENCE:

- Programmer
- System Analyst
- IT Professional

DATES:

MAJOR TOPICS:

- Foundation and concepts
- Identification and Environment Divisions
- Data Division
- Procedure Division - part 1
- Procedure Division - part 2
- Table handling
- Internal sort
- Compilation
- Debugging
- Related programs and subprograms

[Contact Me](#)
[Send Outline](#)
[Distance-learning](#)
[Private Course - Tailored](#)
[Cost Analysis](#)

Effective February 27, 2012, the course dates listed on the SYS-ED schedules only will be available based upon approved and authorized user ID.

The course material and training aids utilized in SYS-ED courses are from multiple sources: courseware generated by staff members, licensed materials, public sources from the Internet, textbooks, and source vendor's documentation.

Not all courses are available for delivery in a distance-learning medium..

Course Search Engine: COBOL - Example - 5



- There also will be links for information specific to that course.
- There is a rectangular gray button with a link to "Distance-learning".
- Invoking that button will present a screen either with:
 - 1 - FEE, PRIVATE GROUP FEE, SMALL CLASS SIZE, DURATION, and CONTENT AND OBJECTIVES for conducting the course in a distance-learning delivery medium
 - 2 - The SYS-ED Distance-learning Center.

Course Search Engine: COBOL - Example - 6



MFPRG04

FEE: \$2,475

PRIVATE GROUP FEE: \$

Based upon a class size of six students.

Scheduling can be adjusted to employee work hours and incorporate client assignments.

SMALL CLASS SIZE:

There is a surcharge associated with training two or fewer students.

AUDIENCE:

- Programmer
- System Analyst
- IT Professional

DATES:

COBOL Programming

DURATION: 5 days

CONTENT AND OBJECTIVES:

1. Foundation and Concepts
 - Compile and run a program.
 - Read and locate error messages.
 - Code, compile, and test a program.
 - Examine code with minor errors; repair the errors.
2. Identification and Environment Divisions
 - Use a COPY command to insert COBOL source at compile time.
3. Data Division
 - Code a program to display date, character, and numeric data.
 - The instructor will provide a COPYBOOK containing a set of data fields. Code a program to print and carry out field manipulation.
4. Procedure Division - Part 1
 - Use of conditional statements for changing report output.
 - Code a simple I/O report program.
 - Given an input dataset, read all the data, and print a simple multi-page report.
5. Procedure Division - Part 2
 - Given a poorly designed program, identify the problems with the program and generate a list of associated fixes.
 - Use the EVALUATE statement. Given a program with associated values, the program will execute logic for each valid value and error logic for an invalid value.
 - Code logic with the INITIALIZE statement.
 - Use system and character manipulation functions.
 - Formatting dates and Social Security numbers.
6. Table Handling
 - Create a table accessed from a subscript.
 - Create a table accessed from an index.
 - Search a table with the SEARCH and SEARCH ALL commands.
 - Code and test a program that searches a table with an index, uses a sequential search with the SEARCH command, and performs a binary search with a SEARCH ALL command.
7. Internal Sort
 - Sort a file and produce a summary report.
8. Compilation
 - Locate compile and run-time errors.
9. Debugging
 - Given a program, locate and fix all the compiler and logic errors.
10. Related Programs and Subprograms
 - Code and test subroutines.
 - Given an algorithm, code the routines, and pass data to and from the routine.
 - Complete the exercise with a nested program.

[Enrollment](#)

Distance-learning is Not Available



- When the Distance-learning Center screen is presented after being invoked from a Course ID row selection, this indicates that the course is not available in a distance-learning delivery medium in conjunction with the SYS-ED schedule.
- A telephone consultation can be requested to ascertain whether the course can be presented on a private basis through a web-based delivery medium.

Distance-learning is Not Available



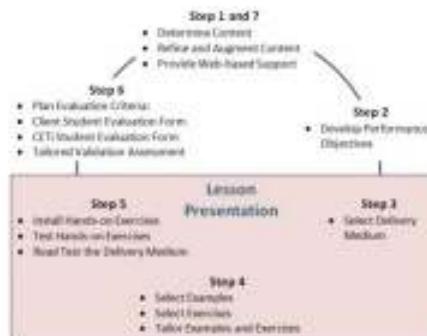
This service is being developed and marketed based upon the standards and regulations of the New York State Department of Education, Bureau of Proprietary School Supervision. Sections 5001 through 5010 of Education Law and Part 128 of the Regulations of the Commissioner of Education. Effective February 27, 2012, the course dates listed on the SYS-ED schedules only will be available based upon approved and authorized user ID.

distance-learning center



Professional Distance-learning/IT Training Services

SYS-ED training services are available in a web-based learning format. A distance-learning course is 60% lecture with pre and post course assessment, review questions, examples, workshops, and website support services. Not all courses are suitable and available for web-based delivery of subject matter.



Mainframe Curriculum

ICICS Transaction Server	COBOL	RS2
IMS Transaction Server	Programming Languages	REXX
VSAM	VSAM	IBM MQ (WebSphere MQ)

Advanced Search



- The Advanced Search provides a preconfigured method to review courses within a categorized and curriculum available presented through a SYS-ED course schedule.
- From the Schedule Search – Curriculum, select a curriculum.
- From the Web-based Training - Distance-learning Curriculum, invoke the curriculum.
- However, the Advanced Search lists only a subset of courses.

Advanced Search



Advanced Search

Course ID Search	Review Subject Matter	Learning Path Search	Integrated Course Sequences
Enter Course ID. <input type="text"/>	 <input type="button" value="Search ID"/>	Select a learning path. <input type="button" value="1) Work in Progress"/>	
Schedule Search	Curriculum	Web-based Training	Distance-learning Curriculum
Select a curriculum. <input type="button" value="1) CICS Transaction Server"/> <input type="button" value="2) COBOL Language"/> <input type="button" value="3) Db2 Relational Database"/> <input type="button" value="4) IMS Hierarchical Database"/> <input type="button" value="5) Mainframe - Summarized"/> <input type="button" value="6) Mainframe Utilities"/> <input type="button" value="7) Programming Languages - Summarized"/>	 <input type="button" value="Distance-learning courses."/>		 <input type="button" value="1) Assembler Language"/> <input type="button" value="2) CICS Transaction Server"/> <input type="button" value="3) COBOL Language"/> <input type="button" value="4) Databases - IBM"/> <input type="button" value="5) Db2 WebSphere and Rational"/> <input type="button" value="6) Development Platforms and Programming L"/> <input type="button" value="7) IBM MQ (WebSphere MQ)"/>

Copyright Acknowledgement

SYS-ED makes no representations of ownership on the software categorized, analyzed, and listed on its websites.

Enrolling in a Course



- Enrollment can be made online from the home page of any SYS-ED website or directly from this url:
 - <http://www.sysed.com/enrollment/regform.aspx>