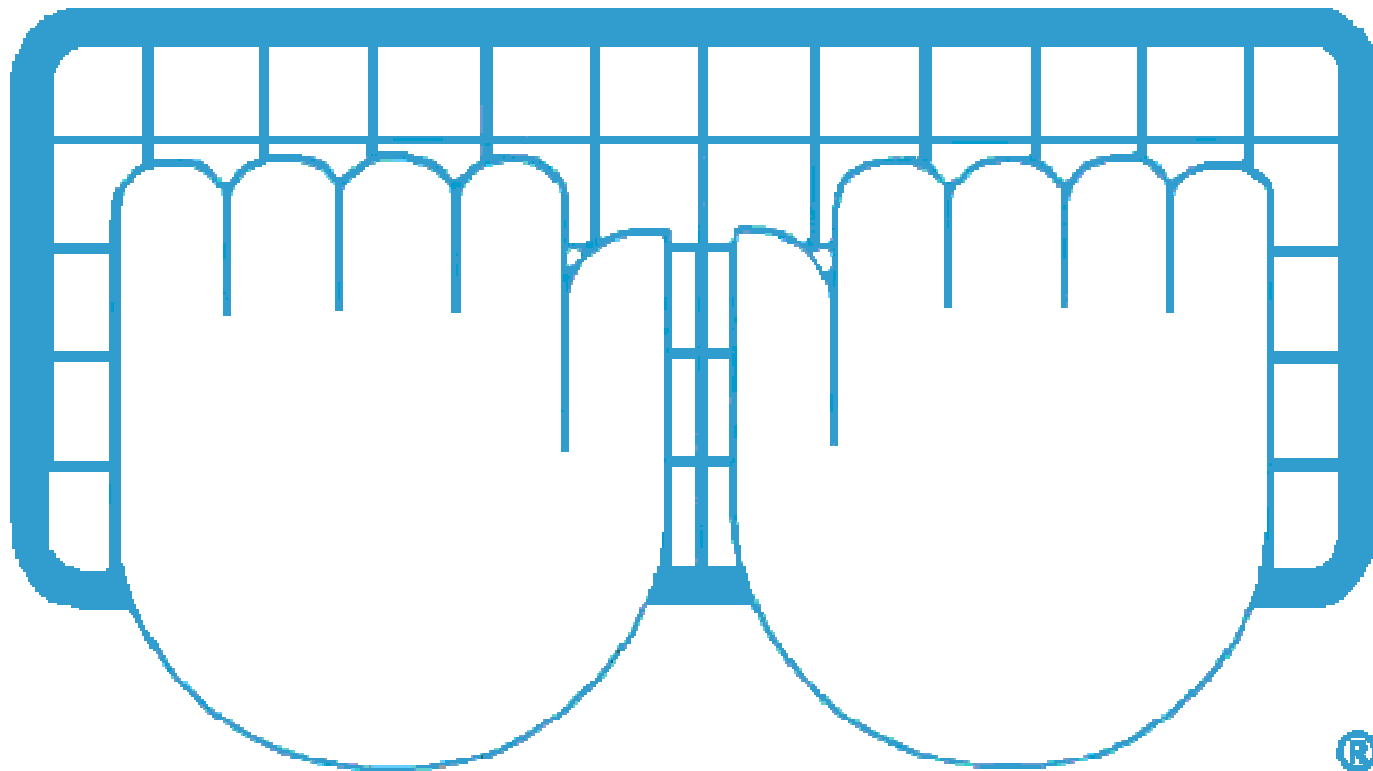


# SYS-ED Courseware



# Courseware Library

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- The SYS-ED courseware library spans the onset of modern data processing.
- It has been developed by technologist entrepreneurs, IT consultants, textbook authors, and salaried staff.
- Content is managed by technical editors, who have multidisciplinary skillsets in information technology, publishing in academia, and degrees in computer science, business administration, and management.
- The principles of adult learning are applied to the content, interpreting and translating subject matter into performance objectives, narrative descriptions, diagrams, and industry- and client- specific examples, and workshop objectives.

# Courseware for Teaching - 1

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- The courseware utilizes a variety of presentation formats - text, tables, bullet point, code snippets - suitable for use in classroom instruction and distance- and e-learning formats.
  - The courseware library as been augmented, revised, and maintained.
  - It is highly valued in information technology; especially in areas where there is a scarcity of up to date industry standard textbooks.

# Courseware for Teaching - 2

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- The base courseware utilized in a SYS-ED course is comprised of:
  - Table of Contents - Summary
  - Copyright Acknowledgement
  - Table of Contents - Detailed
  - Modular Chapters and Lessons
  - Bibliography
  - Exercises
  - Index
  
- The courseware also can be adjusted for extension and integration with industry standard textbooks.

# Knowledge Base: Compilation and Assessment

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- Content in the knowledge base is derived from the compilation and independent assessment of the accuracy of source information and data from:
  - Report journalism
  - Textbooks
  - Open standards committee websites
  - Open source software
  - Trial software
  - Documentation in the public domain
- Content is selectively added to SYS-ED brand and technology partner courseware and training aids.

# Mainframe: Courseware for Teaching - 1

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- A cadre of consultants who were involved in first generation coding and debugging of mainframe programming languages - COBOL, Assembler Language, PL/1, Fortran, RPG - and implementation of system software - VSAM, IMS, CICS, and DB2 - and taught courses for SYS-ED, have contributed to the courseware development.
  - Design specifications
  - Interpretation of documentation
  - Sample programs
  - Skeleton programs
  - Tailored exercises
  - Instructor notes

# Mainframe: Courseware for Teaching - 2

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- The courseware incorporates industry standard content and consultancy derived techniques for:
  - configuring and administering IBM operating systems.
  - efficiently using IBM and third party tools and utilities.
  - designing, coding, and debugging applications written in legacy programming languages.
  - installing, tailoring, and optimizing IBM system software.

# Mainframe: Courseware for Teaching - 3

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- Mainframe courseware can be reviewed at the
  - `“www.computeredtech.com/partners/qc.asp?category=mainframe&cwid=&maincat=&subcat=&course=&lastupdate=&developer=&orderby=COURSE&client=SYSED”`
- Courseware is updated prior to use.



# First Generation Experience: OSS: Open Source Software

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- Industry experts agree that the documentation available for supporting open source software does not provide an equivalent degree of clarity and completeness in relation to its commercial software counterparts.
- SYS-ED courseware and training aids have been designed to address this shortcoming and provide value-added quality.

# Courseware for Free and Open Source Software Training - 1

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- Principals at SYS-ED install and review software distributed under the GPL: General Public License and utilize it to create and update courseware, examples, and exercises.
- The client selects the sample programs, training aids, and exercises for a tailored course from the SYS-ED courseware library.
- Custom courseware and tailored Linux, UNIX, Java, and XML training aids also can be developed.
- At the client discretion, pre and post course validation assessment can be utilized.

# Courseware for Free and Open Source Software Training - 2

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- SYS-ED courseware and training aids incorporate industry standard content and consultancy derived techniques for:
  - Linux and UNIX-variant configuration, internetworking, and administrative scripting.
  - web server configuration, scripting, and performance optimization.
  - designing, coding, and debugging Java applications and using development tools.
  - mobile device programming on Android smartphones and mobile devices.
  - XML integration with databases, web servers, and Java.

# Free and Open Source: Courseware for Teaching

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- Freeware and open source software courseware can be reviewed at the following url:
  - `"www.computeredtech.com/partners/qc.asp?category=Open+Source&cwid=&maincat=&subcat=&course=&lastupdate=&developer=&orderby=COURSE&client=SYSED"`
- Courseware is updated prior to use.

# Courseware and Training Aids

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- Courseware can be reviewed at Courseware as Learning Center:
  - [www.sysed.com/courseware\\_for\\_teaching.asp](http://www.sysed.com/courseware_for_teaching.asp)
    - z/OS JCL  
[www.computeredtech.com/prg\\_content/jcl/main.asp](http://www.computeredtech.com/prg_content/jcl/main.asp)
    - PL/1  
[www.computeredtech.com/prg\\_content/pl1/main.asp](http://www.computeredtech.com/prg_content/pl1/main.asp)

# NRV - Nationally Recognized Vendor

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- SYS-ED welcomes the opportunity to apply the standards of the New York State Department of Education - Bureau of Proprietary School Supervision to our courseware and training services and regulate our business operations.
- As part of this strategy, SYS-ED will be developing courseware and lesson plans where there is no NRV: Nationally Recognized Curriculum - mainframe, open source software, and hybrid areas of information technology.

# David Shapiro



David Shapiro, 35+ years experience in information technology, has developed and edited courseware in conjunction with these consultants and technologists.

- Shaku Atre/Atre International Consultants, IMS, IDMS, DB2, and ADABAS.
- Michael Haupt, z/OS JCL.
- Pacifico Lim, CICS, COBOL, DB2, and IBM mainframe systems software.
- Andy Novick, Visual Basic and structured analysis / design.
- Jeri Roberts-Appel, computer applications.

# David Silverberg



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David Silverberg, 40+ years experience in information technology, wrote a highly respected DB2 Systems Performance book as part of the Jay Ranade Series for McGraw-Hill.

- He has a national reputation for developing courseware in instructor-led, distance-learning, and web-based presentation of information technology subject matter.
- Developed the content for WebSphere MQ courseware.
- Has collaborated with David Shapiro in creating, editing, and updating the SYS-ED courseware library.