



Curriculum Revitalization

career & technical education

Curriculum Revitalization Project

Professional Development Workshops

www.ilcte.org



Illinois State Board of Education

100 North First Street, Springfield, IL 62777-0001

www.isbe.net

Jesse Ruiz
Chair

Christopher A. Koch, Ed.D.
Superintendent

An Equal Opportunity/Affirmative Action Employer

Printed by the Authority of the State of Illinois July 2009 (2000 produced; Grant Agreement: 10-472002-30-039-5400-51)

This publication was prepared pursuant to a grant from the Illinois State Board of Education and is funded 100% through the federal Carl D. Perkins Career and Technical Education Improvement Act of 2006. The total amount of federal funding involved is \$300.00 which represents 100% percent of the cost of producing this publication.

About the Curriculum Revitalization (CR) Project

The purpose of the Curriculum Revitalization (CR) Project is to provide high-quality Career and Technical Education (CTE) curricular resources to the over 6,000 Illinois CTE educators. Those CTE educators prepare more than 340,000 CTE students for careers in the State of Illinois.

The “revitalized” curriculum is based on needed business and industry standards, including technical skills and academic competencies. Its “value-added” curriculum is aligned to the Illinois Learning Standards (ILS) and the 21st Century National Educational Technology Standards (NETS).

These CR Project resources are available via the project website www.ilcte.org and through “on-site” training workshops facilitated by the CR Project CTE content experts.

To assist in program improvement, the CR curriculum resources are free to Illinois teachers.



Curriculum Revitalization

career & technical education

Curriculum Revitalization (CR) Project workshops provide assistance to CTE teachers to utilize the tools and resources available at www.ilcte.org. CR workshops are available in a series (beginners, intermediate, and advanced) to assist in meeting requirements for Perkins state leadership activities for professional development. All workshops are available for individual or combined CTE content areas at the secondary and post secondary levels.

Workshops are available on-site or at the Illinois Office of Educational Services located in Springfield, Illinois. Host sites are expected to provide a computer lab with the necessary Internet connections, computer stations to accommodate each participant, and all other technical requirements (See page 7). CPDUs are available upon request for workshop participants.



Getting to Know www.ilcte.org

Make the CR Project Lesson Library Work for You

◆ **Beginning (Level #1) CR Project Orientation Presentation (1 hour)**

As an overview of the CR Project, participants will be exposed to the benefits, tools, resources, and access to those which are available at www.ilcte.org. Special emphasis marks the alignment of academic and technological standards provided throughout the curriculum. (Presentation only.)

◆ **Intermediate (Level #2) Hands-on CR Project Introductory Workshop (2 hours)**

Using hands-on computer activities and the CR Project, participants go beyond the exposure of the resources available at www.ilcte.org. Special navigation activities will be conducted through the CTE lesson plan library. Participants will “build” course outlines using the lesson plan library and be introduced to the skills needed to perform advanced activities with their saved outlines. A brief overview of the web site’s external features will be explored. (A computer lab setting is required with Internet and download capabilities.)

◆ **Advanced (Level #3) Customizing My CR Courses (3 hours)**

Building upon Level #2 workshops and using hands-on computer activities, participants will customize lessons and paper/pencil tests, “build” lesson plan outlines for specific courses, explore lessons with focused Learning Standards, and/or adapt lessons with ILS focus to specific CTE content curricula. Outside resources and options for customizing course outlines will be used. (A computer lab setting is required with Internet and download capabilities.)

Problem-Based Learning: The Four-Column Method

Using Problem-Based Learning to Address Real-World Problems

The Four-Column Method of Problem-Based Learning is an instructional methodology developed by Dr. Howard Barrows, often referred to as *The Father of Problem-Based Learning*. Dr. Barrows, a neurosurgeon, used simulated patients and real-life scenarios as an alternative to the lecture method of teaching. The unique Barrows' Method of PBL uses these four columns for problem solving: ***Hypotheses, Problem Information, Learning Issues and Action Plan***. In the PBL classroom students learn curricula material as they generate hypotheses, formulate solutions and collaborate to solve problems. In the professional world participants use PBL to investigate issues, separate fact from opinion through research, and develop an action plan that is the product of many minds.

◆ Beginning (Level #1) An Orientation to The Four-Column Method of Problem-Based Learning (1 hour)

Participants will receive an overview of the Barrows' method of Problem-Based Learning, and learn the differences among the Four-Column Method of Problem-Based Learning and other PBL formats. Participants will see examples of exciting and effective PBL Problems that have been used in the classroom and other professional settings. (Presentation only.)

◆ Intermediate (Level #2) Designing Units of Study in a Problem-Based Learning Format (2 hours)

Participants will learn how to design an effective, real-life Problem-Based Learning Unit of Study, using the Four-Column Template, designed by Dr. Howard Barrows. Volunteers will have an opportunity to practice teach their PBL problem before the group. Standards' alignment and other methods of assessment and will also be covered during this three-hour session.

◆ Advanced (Level #3) Using Problem-Based Learning to Teach a Unit of Study (3 hours)

Using the 4-Column Format of Problem-Based Learning, participants will have an opportunity to "try on" the PBL tutoring process. Some of the real-life problems used in the demonstration will include: What caused the Tacoma Narrows' Bridge to undulate and collapse? How does the coroner determine the time of death in a murder case? How can a crash site be reconstructed to identify the individual who initiated the accident?



Enhance CR Lessons Through Podcasting

Use Podcasting to Accentuate your Curriculum.

- ◆ **Beginning (Level #1) Educational Benefits of Podcasting** (1 hour)

Participants will receive basic information regarding podcasting, who uses it and how it could be incorporated into the classroom. (Presentation only.)

- ◆ **Intermediate (Level #2) Learn to Podcast with Audacity!** (2—3 hours)

An overview of podcasting will be provided and its benefits and uses in education and elsewhere will be briefly discussed. Participants will receive a very basic overview of the resources needed to create podcasts and with hands-on experience will create their own. (A computer lab setting is required with Internet and download capabilities. Headsets with microphones are required.)

- ◆ **Advanced (Level # 3) Create and Publish Working Podcasts** (3 hours)

After review and assessment of Levels 1 and 2 skills, participants will create podcasts for various Curriculum Revitalization Project lessons. They will explore resources to develop enhanced podcasts, render them in various formats and learn how to publish to web sites. (A computer lab setting is required with Internet and download capabilities. Headsets with microphones are required.)

Vodcasting in the Classroom!

With Webcam and Camtasia, Create Vodcast Classroom Updates!

- ◆ **Beginner (Level #1) Educational Benefits of Vodcasting** (1 hour)

Participants will receive basic information regarding vodcasting, who uses it and how it could enhance and supplement classroom curriculum. (Presentation only.)

- ◆ **Intermediate (Level #2) Learn to Vodcast** (2 hours)

After an overview of the benefits and uses of vodcasting are presented, participants will receive a very basic hands-on training creating their own vodcast. (A computer lab setting is required with Internet and download capabilities. Headsets with microphones are required.)

- ◆ **Advanced (Level #3) Vodcasting's Wow Factor** (3 hours)

After review and assessment of Levels 1 and 2 skills, participants will create vodcasts to enhance selected Curriculum Revitalization Project lessons. They will explore resources to develop enhanced vodcasts, render them in various formats and learn how to publish to web sites. (A computer lab setting is required with Internet and download capabilities. Headsets with microphones are required.)

Web 2.0 Emerging Technologies

Incorporate Web 2.0 Emerging Technologies in the Curriculum.

- ◆ **Beginning (Level #1) What are Web 2.0 technologies (1 hour)**

Participants will receive basic information regarding a variety of Web 2.0 emerging technologies, who uses them and how they might incorporate some in their classrooms. (Presentation only.)

- ◆ **Intermediate (Level #2) Social Networks & the Classroom (1-2 hours)**

What are social networks? How can they be used in an educational setting? Participants will be introduced to a number of social networking concepts and given the opportunity to join those of interest. (A computer lab setting is required with Internet and download capabilities.)

- ◆ **Advanced (Level # 3) Use Web 2.0 Technologies in the Classroom (3 hours)**

Building upon skills attained in Levels 1 & 2, additional Web 2.0 technologies will be discussed including the benefits and drawbacks of Skype, texting, blogging, wikis, twitter, YouTube, Delicious, and more. (A computer lab setting is required with Internet and download capabilities.)

My Helpful Links

Use the www.ilcte.org Helpful Links to Fit Your Classroom Needs

- ◆ **Beginner (Level #1) Use www.ilcte.org to Enhance Your Lessons (1 hour)**

Participants will receive an overview of the CR project with an emphasis on the “Helpful Links” section of the website. (Presentation only.)

- ◆ **Intermediate (Level #2) The Wow Factor (2 hours)**

Participants will be given the opportunity to explore the “Helpful Links” and be shown how to incorporate these activities into the existing lessons.

- ◆ **Advanced (Level #3) “My Helpful Links” (3 hours)**

This workshop is an extension of the Intermediate series. Participants will be able to use the resources they have identified from levels 1 and 2 and create lessons that fit their classroom needs using www.ilcte.org.

Cloud Computing with Google!

Take the Burden Off Your Server—Compute in the Cloud!

- ◆ **Beginning (Level #1) Cloud Computing Orientation (1 hour)**

Participants will receive basic information regarding cloud computing with emphasis on Google and how it could be incorporated into the classroom. (Presentation only.)

- ◆ **Intermediate (Level #2) Explore Cloud Computing! (1-2 hours)**

A hands-on computer workshop is used to give participants experience with basic Google tools. (A computer lab setting is required with Internet and download capabilities.)

- ◆ **Advanced (Level # 3) Hands-On Cloud Computing (2-3 hours)**

Building upon Levels 1 & 2 workshops using hands-on computer activities, participants will use Google to compute in the cloud, send and receive RSS feeds, and build a web page. More tools will be discussed as they are developed by Google. (A computer lab setting is required with Internet and download capabilities.)

Will That Be on the Test?

Apply Standards to Measure Student Progress

- ◆ **Beginning (Level # 1) Writing Tests, Quizzes and Assessments**

Participants will distinguish among tests, quizzes and assessments and apply each to measuring student progress in light of the Illinois Learning Standards. (Presentation only.)

- ◆ **Intermediate (Level #2): Test Writing Principles and Strategies**

Participants will review principles and strategies for developing valid and reliable test items and explore on-line materials.

- ◆ **Advanced (Level #3): Using the CR Project Lesson Library to Make Standards Referenced Tests.**

Participants will practice writing standards-referenced tests and quizzes relating to materials in the CR Project Lesson Library with emphasis on Science Technology Engineering and Mathematics (STEM) .

Technical Requirements

- ◆ A laptop projector with a screen or blank wall
- ◆ Flipcharts and pens
- ◆ Microphone if 30 or more people
- ◆ Description of the lab including number of computers and platforms (Apple or PC)
- ◆ USB ports
- ◆ Internet access (preferably for all computers)
- ◆ Indicate if lab has wireless access
- ◆ MS Office Suite on all stations—Indicate if 2003 or 2007
- ◆ Adobe Reader version 9.1 on all stations
- ◆ User-Name/password to access computers, if necessary
- ◆ User-Name/password for Internet access, if necessary
- ◆ Print availability in the lab (or close by)



We request your technology specialist be on hand, if possible, to avoid delays, Your technology specialist should:

- ◆ Contact Kevin Kirby at least one week prior to the event to discuss and confirm the technical set-up for the hands-on workshop (kkirby@ioes.org or 217.786.3010 or 800.252.4822, ext. 251)
- ◆ Please make sure website links are viewable and working on your system from www.ilcte.org.

To Schedule a Professional Development Workshop Call a CR Project Facilitator

Linda Cozzolino

Health Science Technology
CR Facilitator

email: lcozzolino@ioes.org

(800) 252-4822 ext. 252

D. Diane Mahinda

Business, Marketing, & Computer
Education CR Facilitator

email: dmahinda@ioes.org

(800) 252-4822 ext. 228

Dr. Robert Hotes

Technology and Engineering
Education CR Facilitator

email: rhotest@ioes.org

(800) 252-4822 ext. 249

Linda Walker

Family and Consumer Sciences
CR Facilitator

email: lwalker@ioes.org

(800) 252-4822 ext. 229

IOES Director

Dr. Rebecca Woodhull

email: rwoodhull@ioes.org

(800) 252-4822 ext. 231

CTE Curriculum Revitalization Project Director

Mary Waters

email: mary@watersedgeconsulting.net

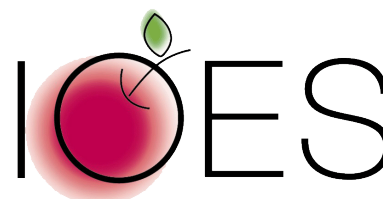
(630) 208-6605

CR Project Workshops are conducted under an Illinois State Board of Education contract by the:

Illinois Office of Educational Services
Workforce Education Resource Center
2450 Foundation Drive, Suite 100
Springfield, IL 62703-5464
Southern Illinois University Carbondale
College of Education and Human Services
Workforce Education and Development

Phone: (800) 252-4822/Fax: (217) 786-3020

Email: info@ioes.org



ILLINOIS OFFICE OF EDUCATIONAL SERVICES