

Accepting the Challenge: Effective Teaching of the NEW Tennessee Embedded Inquiry and Engineering and Technology Standards

A Two-Day, Hands-On and Standards-Driven Professional Development Experience

Lead Presenters: Dr. Terry Lashley and Mr. Chuck English

Engineering education is beginning to find a home in classrooms and clubhouses from Maine to California. This includes Tennessee! Educators nationwide are discovering that engineering is just as engaging, fun, educational, and important for students to learn—as science. In fact, it's surprising that it's not the other way around; with engineering part of the educational bedrock, and science looking for a toehold. After all, there are many more jobs for engineers in our country than for scientists, and the engineering processes of invention and innovation underpins our economy. So join us at Learning Curve Educational Consulting in Knoxville for this exciting professional development.

This Professional Development will feature Fourteen “Hooks” as starters – some of these engineering hooks include: Sports Equipment Design, Animatronic and Animation Engineering, Roller Coasters and Themed Attractions, Music, People Engineering, Space Engineering, Animal Engineering, Computers and Connectivity, Energy Engineering, Save the World Engineering! And More! We hope you will join us!



As part of the Embedded Inquiry and Engineering and Technology Standards Cohort you will engage in work which will transform your curriculum through the addition of the embedded inquiry and engineering/technology standards. Participants will do this by:

- Learning to facilitate the inquiry process through relevant questioning,
- Learning to teach as a facilitator to enable students to develop their own skills to observe, interpret and self-assess,
- Utilizing common and easily found resources for design, application, and assessment – the basis of engineering, and
- Learning to effectively use technological tools to enhance teaching and learning.

Other:

- Handouts and Electronic Resources
- Participants should bring a wireless laptop computer for use during the workshop
- Continental Breakfast and Lunch
- Snacks
- Door Prizes
- Limit of 12 Participants

Cost: \$425

Digital Blue QX5 Microscope Workshop

9:00 am – Noon

Lead Presenter: Dr. Terry Lashley, President, Learning Curve Educational Consulting

Digital microscopes are tools that help students explore objects more in depth than possible with the human eye. The detachable body of the Digital Blue QX5 Microscope also allows students to obtain magnification of objects that would not fit on the microscope's stage. Teachers can easily find ways to integrate subjects when using digital microscopes. For example, students can use artforms to draw what they see or use language arts to organize observations through Venn diagrams and other literary tools. Also, mathematics is easily incorporated by using the measurement feature. Other science lesson examples include the study of plant structures- such as leaves and flowers, the growth of salt crystals, the grain sizes of rock crystals, or the composition of soil.



The Digital Blue QX5 Microscope is to be used with a PC laptop, wireless is preferred. Participants should bring a laptop to the workshop.

This microscope can be used to create special effects, music, a slideshow and videos of experiments, including timelapse data collection. Magnification available is 10X, 60X and 200X.

This one-half day workshop will provide instruction on how to use a digital microscope and how to integrate the use of the Digital Blue QX5 Microscope, into the Mathematics and Science Classroom.

Each participant will also receive a Digital Blue QX5 Microscope.

Other: Handouts
Continental Breakfast
Door Prizes
Limit of 12 participants

Cost: \$225

Learning Curve Educational Consulting Grantwriting Workshop

9:00 am – 3:30 pm

Lead Presenter: Dr. Terry Lashley, President, Learning Curve Educational Consulting

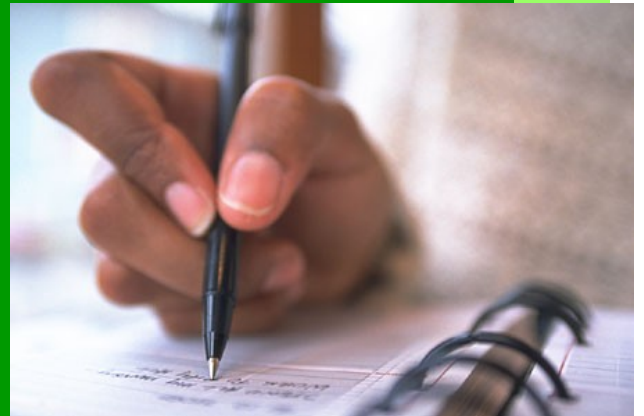
So, you want to write and win a grant?

Classroom teachers *just like you* are regularly “winning” grants for materials, supplies, field trips and professional development. Have you ever wondered how you could write and win your own grant? Have you been deterred from grantwriting because you think the process is too complicated to attempt? Would you like to better understand the grantwriting process to increase your possibilities for success? If you answered yes to any of these questions, then this workshop is for you!

Secure Grant Funding for Your Classroom! Workshop will cover the basics of grant proposal development.

You will learn how to:

- Look for potential funding agencies,
- Respond to “RFPs” (Requests for Proposals),
- Use data to drive and support your idea,
- Appropriately respond to and write your proposal,
- Develop your budget and budget narrative,
- Implement and manage your grant, when funded,
- Monitor and evaluate your grant, and
- Report your grant successes to your financial sponsor and develop a relationship for additional funding.



You will leave this six-hour workshop session with a “finished” mini-grant application! Several previous attendees were awarded the grant they wrote and submitted electronically *during* the workshop! Don’t miss out – once you learn the grantwriting process, you will be ready to write and win your own grants!

Other:

- Participants need to bring a wireless laptop.
- Links to Grant Resources and Requests for Proposals
- Lunch and Snacks
- Door Prizes!!!

Cost: \$175

Knowing what they know: Using INFORMATIVE Assessments in Teaching and Learning

A Two-Day, Data-Driven, Professional Development Experience.

Lead Presenters: Dr. Terry Lashley and Mr. Chuck English

“The most important single factor influencing learning is what the learner already knows. Ascertain this and teach him accordingly.”
– Ausubel, Novak, and Hanesian (1978)

Has anything like this ever happened to you?

After teaching a unit on seasons, a science teacher included the following item on a test:
Which of the following locations would you expect to have the least temperature variation throughout the year?

A Toronto, Canada C Sydney, Australia
B London, England D Manta, Ecuador

The teacher had done a thorough job teaching the unit, and based on student responses to questions she asked during class, she was confident they would recognize a location on the equator as the correct answer. She was disappointed and confused when three-fourths of the class missed the item. As she returned the tests, she asked several students why they got the question wrong. Almost without exception, each student asked, “Where’s Ecuador?”

This professional development offering will focus on the value of well written assessment tools and how they can be used to inform the teacher and direct the learning experiences. Participants need to bring a wireless laptop.

Effective strategies and principles will guide the workshop and includes:

- Clarifying content domains
- Integration of the Tennessee and National Standards in Mathematics and Science
- Opportunities to practice and apply the strategies and principles for developing student items (formative and summative)
- How to identify, collect and utilize classroom data to improve classroom instruction

Other:

- Handouts and Electronic Resources
- Continental Breakfast, Lunch and Snacks
- Door Prizes



Cost: \$425



Learning Curve

EDUCATIONAL CONSULTING

Make Checks Payable to:



Mail to: LCEC
9724 Kingston Pike STE 1401
Knoxville, TN 37922

Fed ID # 20-5996214

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Participant's Contact Information	Name:	
	Email Address:	
	Home Address:	
	Home/Cell Telephone: (H)	(C)
Professional Information	Primary Title/Role in School District:	
	What grade level(s)/subject(s) do you currently teach or support?	
	Certifications:	Years Experience:
	Have you received an alternative certification to teach?	
School Information	District:	
	Name of School:	
	School Address:	
	Supervisor's Name:	Email:
Payment Information	P.O. Number:	Send Invoice to ATTN:
	Address:	
Comments/ Special Needs		

Schedule	Inquiry / Engineering	Assessments	Grant Writing	Digital Blue QX5	Which session(s) will you attend?
		2 Days	2 Days	1 Day	
Fall 2010	Session 1: Nov 18-19, 2010 or Session 2: Jan 6-7, 2011	Session 1: Dec 9-10, 2010 or Session 2: Jan 13-14, 2011	<i>(Saturdays)</i> Session 1: Nov 13, 2010 or Session 2: Jan 22, 2011	<i>(Saturdays)</i> Session 1: Dec 11, 2010 or Session 2: Feb 12, 2011	Total: <input type="text"/>
Spring 2011					
Registration	\$425 /session	\$425 session	\$175 /session	\$225 /session	