

PIL Program: *Increasing Student Achievement by Utilizing the Standards Aligned Systems (SAS) to Integrate Science, Technology, Engineering, and Mathematics (STEM) into Career and Technical Education*

**October 18 and 19, 2010
Penn Stater Conference Center Hotel**

Description

The Pennsylvania Association of Career and Technical Administrators has received approval from the Pennsylvania Department of Education to offer a Pennsylvania Inspired Leadership (PIL) program for administrators entitled *Increasing Student Achievement by Utilizing the Standards Aligned Systems (SAS) to Integrate Science, Technology, Engineering, and Mathematics (STEM) into Career and Technical Education*. The purpose of this PIL program is to provide Career and Technical Center leaders with the knowledge and skills to work with teachers to improve the achievement of Career and Technical Education (CTE) students on the Science, Technology, Engineering, and Mathematics Standards through curriculum integration with Career and Technical Education.

The 40-hour program will include 15 hours of instruction during October 18 and 19 session, 21 hours of job-embedded assignments, and a final four hour culminating session. The program will incorporate on-line technical assistance at www.pactatopics.org to participants throughout the program. The program is designed to provide participants with the skills to utilize the Standards Aligned System (SAS) to integrate STEM competencies into CTE that will result in improved CTE student achievement on the STEM Standards and on end-of-course occupational assessments.

The SAS/STEM curricular concepts covered in this program will be aligned with the PA Chapter 339 requirements for Career and Technical Education, the Perkins IV requirements for data analysis, program improvement, and the Pennsylvania Standards for Science Technology Engineering and Mathematics. Additionally, the program will address how SAS can be integrated into Career and Technical Education.

Participants will develop an understanding of the Pennsylvania SAS and STEM. Additionally, participants will participate in multiple discussions and creative sessions to utilize SAS and STEM to create integrated learning modules for selected CTE areas. Participants will learn how to create activities, projects, and problems as components of learning modules that integrate STEM into CTE. At the conclusion of the program, participants should be able to: demonstrate a complete understanding of the SAS; demonstrate a complete understanding of the STEM standards; develop strategies for applying SAS to CTE; develop strategies for linking CTE curriculum to STEM standards through activities, projects, or problems; complete all components of the STEM/CTE Learning Module; conduct an evaluation of STEM/CTE Learning Modules; and use assessment data to identify student achievement of CTE and STEM standards through the Learning Modules.

Act 45 and 48 Credits

This PIL is approved for Act 45 credit for those who are required to earn PIL credits. It is also approved for regular Act 48 credits for those who are not required to earn Act 45 credits. Act 45 and 48 credits will be awarded upon completion of the entire program.

Date and Location

The initial session for this PIL will be offered October 18 and 19, 2010 at the Penn Stater Conference Center Hotel. Monday, October 18 will run from 11:00 a.m. to 7:00 p.m. and Tuesday, October 19 will run from 8:00 a.m. to 4:00 p.m.

Registration

PACTA is encouraging team participation in this PIL. The cost for the first registrant from a school is \$400, the second \$300 and the third \$250. The charge for additional registrants is \$200. The registration fee covers the entire 40-hour course.

Accommodations

A block of rooms for PIL participants has been reserved at the Penn Stater Conference Center Hotel for the nights of October 18 and 19. (This PIL is being offered in conjunction with a PSSA PIL on October 18, an OCA PIL on October 19 and a PACTA General Membership Meeting on October 20.) The rates are \$105.00 single and \$115.00 double occupancy. Individuals are responsible for making reservations for hotel accommodations. Identify yourself as part of the PACTA group when making reservations. The group reservation identification number is PACJ10E. **Make your reservations by September 17, 2010.** Reservations made after that date will be on an as available basis at regular rates. The telephone number for the Penn Stater is (800) 233-7505.

Registrants from Schools Participating in the PDE Technical Assistance Project

54 PACTA member schools are participating in the Bureau of Career and Technical Education's Technical Assistance Program (TAP). This PIL is a required component of that program. TAP Cohort I schools may send up to three individuals and TAP Cohort II schools may send one individual to this PIL at no cost for the registration fee to the school. PDE will pay the registration fee.

If you have any questions regarding this program, please contact Jackie Cullen at (717) 761-3381 or jackie@pacareertech.org.

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**NON-TAP SCHOOL
REGISTRATION FORM**

NAME _____

TITLE _____

AGENCY/SCHOOL _____

ADDRESS _____

TELEPHONE _____

FAX _____

E-MAIL _____

The cost for the first registrant from a school is \$400, the second \$300 and the third \$250. The charge for additional registrants is \$200.

Check which registrant you are from your institution and pay the appropriate fee:

- _____ First Registrant: \$400
- _____ Second Registrant: \$300
- _____ Third Registrant: \$250
- _____ Additional Registrants: \$200

NOTE: Participants from PACTA Institutional Member Schools receive a 10% discount. If you are not sure if your school is an institutional member of PACTA, contact Jackie Cullen at (717) 761-3381 or jackie@pacareertech.org.

Mail this form with a check made payable to PACTA to:

**PACTA
23 Meadow Drive
Camp Hill, PA 17011-8331
Telephone: (717) 761-3381 • Fax: (717) 761-5811 • jackie@pacareertech.org**

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**TAP SCHOOL
REGISTRATION FORM**

NAME _____

TITLE _____

AGENCY/SCHOOL _____

ADDRESS _____

TELEPHONE _____

FAX _____

E-MAIL _____

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