

Project Share Online Course

This course will be managed at the state level.

Title of Course:	TEA Engineering Design and Problem Solving: Part 1 TEA Engineering Design and Problem Solving: Part 2 TEA Engineering Design and Problem Solving: Part 3 TEA Engineering Design and Problem Solving: Part 4 TEA Engineering Design and Problem Solving: Part 5 TEA Engineering Design and Problem Solving: Part 6
Description:	This professional development course is designed to prepare teachers to teach §130.373 Engineering Design and Problem Solving. Engineering design is the creative process of solving problems by identifying needs and then devising solutions. Students will gain an understanding of the engineering design process and how it leads to solutions that may be in the form of a product, technique, structure, process, or many other things depending on the problem. Participants will also be exposed to various engineering disciplines and how they address a broad spectrum of design problems using specific concepts from the sciences and mathematics to derive a solution. This course emphasizes solving problems, moving from well-defined toward more open ended, with real-world applications. There are 6 sections of Engineering Design and Problem Solving. It is recommended that course sections be taken in order. Course access code is below and inquiries may be addressed to projectshare@tea.state.tx.us or contact your regional education service center (ESC). CPE credit is 15 hours for each section.

Course Details

Audience:	All teachers assigned to teach Engineering Design and Problem Solving must participate in this Texas Education Agency (TEA)-approved training prior to teaching the course effective with the 2012-2013 school year. Teachers who were assigned to teach this course in 2010-2011 and/or 2011-2012 will have 12 months from the date the course is first offered to meet the TEA-approved training requirement. For teachers who have not previously taught this course, once a district has confirmed that a teacher is enrolled in and making progress toward the completion of the online PD course, the district may assign the teacher to teach the high school course.
Keywords:	CTE, Career and Technical Education, Engineering Design and Problem Solving
Type of course:	Self-paced
Credits:	CPE credit is 15 hours per section
Course information:	TEA Engineering Design and Problem Solving: Part 1 http://www.epsilen.com/crs/12112695 Quizzes: 3 TEA Engineering Design and Problem Solving: Part 2 http://www.epsilen.com/crs/12112696 Quizzes: 1 TEA Engineering Design and Problem Solving: Part 3 http://www.epsilen.com/crs/12112697 Quizzes: 1 TEA Engineering Design and Problem Solving: Part 4 http://www.epsilen.com/crs/12112698 Quizzes: 1 TEA Engineering Design and Problem Solving: Part 5 http://www.epsilen.com/crs/12112699 Quizzes: 1 TEA Engineering Design and Problem Solving: Part 6 http://www.epsilen.com/crs/12112700 Quizzes: 1
Estimated length:	15 hours per section
Start date:	August 14, 2012
Access Code:	engdps