



Division of
Community Colleges

Bureau of
Adult, Career, and
Community College
Education

Guidance for Iowa Districts and Community Colleges Implementing Engineering-Related Project Lead the Way (PLTW) Programs

June 2011

In response to requests from the field, the Iowa Department of Education is providing this guidance document to address questions regarding delivery and funding of Project Lead the Way programs in the State of Iowa.

This document is not intended to be a comprehensive guide to addressing all PLTW-related issues. It is intended to provide greater clarity regarding the connection between the how the PLTW program is delivered and the various funding streams available to support the program (*Note: Tech Prep funds were eliminated in the FY11 federal budget*).

Instructor Certification

To be eligible to teach secondary level Engineering-Related—Project Lead the Way (PLTW) courses in Iowa, an individual must hold a valid Iowa teaching license with the 5-12 Industrial Technology, 5-12 Mathematics, or 5-12 Science endorsement AND successfully complete the PLTW training program.

To be eligible to teach postsecondary level Engineering-Related—PLTW courses in Iowa, an individual must meet the individual college's instructor requirements AND successfully complete the PLTW training program.

Program Structure

Any school agreeing to implement an Engineering-Related—PLTW program is agreeing to provide a minimum of three PLTW courses. Each course is one Carnegie unit in length; therefore, the Engineering-Related—PLTW program will contain a minimum of three units of instruction.

There are multiple ways through which the units of instruction can be provided. Each method has a unique bearing on teacher licensure requirements, State of Iowa accreditation requirements, type of credit awarded to students (i.e., secondary or postsecondary), and the applicable funding stream(s). The following pages are intended to clarify these variations.

Program Reporting

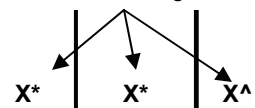
For purposes of program data collection, Engineering-Related Project Lead the Way programs are assigned a unique Classification of Instructional Programs (CIP) number, 15.15000000. Engineering-Related Project Lead the Way programs are also assigned the State Title designation: "Engineering Related – PLTW." Engineering-Related-PLTW programs (CIP 15.15000000) should contain only PLTW engineering-related courses.

Unit Delivery Method	Instructor Credentials (including completion of PLTW training)	Type of Credit Awarded to Student	Engineering-Related—PLTW Program Impact on 9-12 Accreditation	Potential Funding Streams					
				State foundation aid (1.0 per pupil aid per Iowa Code Ch 257)	Secondary Perkins allocation	State Vocational Reimbursement (if state-approved program)	State supplementary weighting	Postsecondary Perkins allocation	Tech Prep allocation (if Tech Prep program)
Three secondary units taught at the local high school	All units taught by individual(s) holding an Iowa teaching license with a 5-12 Industrial Technology endorsement	Secondary Credit Only	Engineering-Related—PLTW program can be used to help meet minimum vocational education requirements contained in 281—IAC 12.5(5)(i)	X	X	X			
Three secondary units taught at the local high school	Some units taught by individual(s) holding an Iowa teaching license with a 5-12 Industrial Technology endorsement <u>AND</u> : Some units taught by individual(s) holding an Iowa teaching license with a 5-12 Mathematics endorsement OR Some units taught by individual(s) holding an Iowa teaching license with a 5-12 Science endorsement	Secondary Credit Only	If approved, Engineering-Related—PLTW program <u>courses</u> taught by Industrial Technology endorsed instructor can be used in an appropriate CTE program to help meet its minimum unit requirements (281—IAC 12.5(5)(i))	X		X			
			Engineering-Related—PLTW program courses taught by Mathematics endorsed instructor can be used to help meet minimum requirements for mathematics (281—IAC 12.5(5)(c))	X					
			Engineering-Related—PLTW program courses taught by Science endorsed instructor can be used to help meet minimum requirements for science (281—IAC 12.5(5)(d))	X					

Unit Delivery Method	Instructor Credentials (including completion of PLTW training)	Type of Credit Awarded to Student	Engineering-Related—PLTW Program Impact on 9-12 Accreditation	Potential Funding Streams					
				State foundation aid (1.0 per pupil aid per Iowa Code Ch 257)	Secondary Perkins allocation	State Vocational Reimbursement (if state-approved program)	State supplementary weighting (see footnote)	Postsecondary Perkins allocation	Tech Prep allocation (if Tech Prep program)
Three secondary units taught at the local high school	Some units taught by individual(s) holding an Iowa teaching license with a 5-12 Industrial Technology endorsement AND/OR Some units team taught by an individual with a 5-12 Industrial Technology endorsement and an individual with either a 5-12 Mathematics or 5-12 Science endorsement	Secondary Credit Only	If approved, Engineering-Related—PLTW program <u>courses</u> taught by Industrial Technology endorsed instructor can be used in an appropriate CTE program to help meet its minimum unit requirements Team taught courses can be used to help meet minimum requirements for vocational education, mathematics, or science according to the endorsement held by the instructors; however, <u>the total units used for accreditation cannot exceed the total units for the program</u> (i.e., a one unit course cannot be counted as one unit of CTE and one unit of mathematics)	X	X	X			
Three secondary units taught – some units taught at the local high school, some units taught at a cooperating high school	Refer to instructor license scenarios provided above and on previous pages	Secondary Credit Only	Refer to the guidance provided on previous pages for the particular instructor license scenario	X	See footnotes at bottom of Page 5 				

Unit Delivery Method	Instructor Credentials (including completion of PLTW training)	Type of Credit Awarded to Student	Engineering-Related—PLTW Program Impact on 9-12 Accreditation	Potential Funding Streams					
				State foundation aid (1.0 per pupil aid per Iowa Code Ch 257)	Secondary Perkins allocation	State Vocational Reimbursement (if state-approved program)	State supplemental weighting (see footnote)	Postsecondary Perkins allocation	Tech Prep allocation (if Tech Prep program)
Three units taught – Some as secondary units taught at a local high school, some as post-secondary units provided through a cooperating community college	All secondary units taught by individual(s) holding an Iowa teaching license with a 5-12 Industrial Technology endorsement All postsecondary units taught by individual(s) approved by the community college and meeting college hiring requirements	Secondary Credit Only	Engineering-Related—PLTW program can be used to help meet minimum vocational education requirements contained in 281—IAC 12.5(5)(i)	X	X*	X*	X^A	X	X
		Secondary and Post-secondary Credit							

See footnotes at bottom of Page 5



Unit Delivery Method	Instructor Credentials (including completion of PLTW training)	Type of Credit Awarded to Student	Engineering-Related—PLTW Program Impact on 9-12 Accreditation	Potential Funding Streams					
				State foundation aid (1.0 per pupil aid per Iowa Code Ch 257)	Secondary Perkins allocation	State Vocational Reimbursement (if state-approved program)	State supplemental weighting (see footnote)	Postsecondary Perkins allocation	Tech Prep allocation (if Tech Prep program)
Minimum of three units taught – Some secondary units taught at a local high school, some post-secondary units provided through a cooperating community college	Secondary units taught by individual(s) holding an Iowa teaching license with 5-12 Mathematics or 5-12 Science endorsement All postsecondary units taught by individual(s) approved by the community college and meeting college hiring requirements	Secondary Credit Only	Secondary courses taught by person holding 5-12 Mathematics endorsement can be used to help meet minimum requirements for mathematics (281—IAC 12.5(5)(c)) Secondary courses taught by person holding 5-12 Science endorsement can be used to help meet minimum requirements for science (281—IAC 12.5(5)(d))	X	See footnotes at bottom of this page				X
		Secondary and Post-secondary Credit	Engineering-Related—PLTW program <u>courses</u> taught by an approved community college instructor can be used in an appropriate secondary CTE program to help meet its minimum unit requirements	X*					X^
Minimum of three units – all provided through a cooperating community college	All units taught by individual(s) approved by the community college and meeting college hiring requirements	Secondary and Post-secondary	Engineering-Related—PLTW program can be used to help meet minimum vocational education requirements contained in 281—IAC 12.5(5)(i)	X	X*	X^	X	X	

* Eligible for the indicated funding source only if all related requirements are met (e.g., the instructor(s) hold the Industrial Technology endorsement)

May be eligible for one of the “district-to-district” supplementary weighting options provided through Iowa Code section 257.11(2)(a) or 257.11(2)(d)

^ Eligible for “district-to-community college” supplemental weighting **only if the units are beyond the minimum required for accreditation AND** all other requirements in Iowa Code section 257.11(3) are met

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If you have questions or grievances related to compliance with this policy by the Iowa Department of Education, please contact the legal counsel for the Iowa Department of Education, Grimes State Office Building, 400 E 14th St, Des Moines IA 50319-0146, telephone number 515/281-5295, or the Director of the Office for Civil Rights, U.S. Department of Education, 111 N. Canal Street, Suite 1053, Chicago, IL 60606-7204.