

ISBE CTE Licensing and Endorsements

The Illinois State Board of Education's CTE and Innovation Department has prepared this document to guide the field while also better aligning licensure allowability to the cross-discipline nature of roles in business and industry. For example, in the Health Science and Technology pathway area, this guide recognizes that a Registered Nurse instructing a Certified Nurse Assistant pathway is well qualified to also deliver instruction in the Health Unit Coordinator/Ward Clerk, Pharmacy Technician/Assistant, Clinical/Medical Laboratory Technician, and Phlebotomy Technician pathways. In Architecture and Construction, this guide recognizes that an industry professional with experience in Building/Property Maintenance also has the knowledge to provide secondary instruction in the Electrician and Heating, Ventilation, and Air Conditioning (HVAC) pathways.

Career and Technical Education (CTE) pathway approval for federal and state grant funding requires appropriate teacher licensure with either:

- a.) a Professional Educator License (PEL) endorsed in a CTE area
- b.) an Educator License with Stipulations (ELS) endorsed in Career and Technical Education, or
- c.) an Educator License with Stipulations for Career and Technical Education Provisional. (ELS-CTEP).

**All courses within the Education, General (13.0101) CTE pathway can be taught by any educator with an ISBE-issued Professional Educator License (PEL) that has served as a full-time classroom instructor for at least two years and is licensed to teach within the appropriate grade band. There is no requirement for these educators to attain an additional CTE Educator License with Stipulations in this content area (ELS-CTE). If an educator has the appropriate experience but is not licensed to teach in the appropriate grade band, they can add the Education & Training (HPS) ELS-CTE to their endorsement.*

**CTE Workplace Experience courses can be taught within the educator's endorsement without any additional training and/or certification. CTE Workplace Experience courses can be taught outside of educator's endorsement by a currently endorsed CTE teacher who has either attained a WBL designation in ELIS. The requirements for the designation are a.) the individual completes two courses from a regionally-accredited institution of higher education, as approved by the State Board, in work-based learning; or b) the individual completes a sequence of work-based learning modules approved and offered by the State Board or a designee. For more information, see Illinois Administrative Code, Part 1, Section 1.738.*

*Educators in programs in career pathways regulated by U.S. Department of Defense**, Illinois Department of Financial and Professional Regulation†, Illinois Secretary of State§, or the Illinois Department of Public Health‡ must comply with any and all requirements set forth by those agencies.*

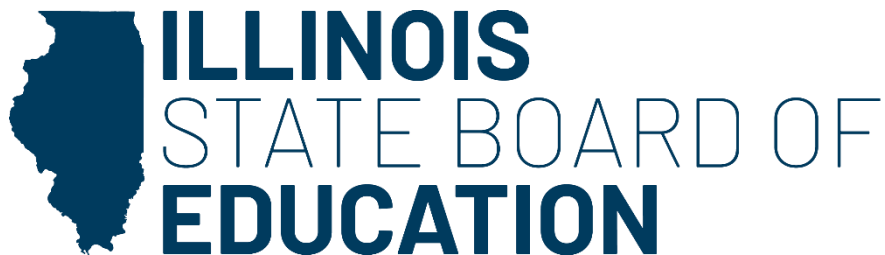


Table 1: Career and Technical Education Course Assignability by Subsequent Endorsement on the Professional Educator License

The endorsements found in Table 1 represent relevant Career and Technical Education PEL Endorsements and valid CTE 5-12 subsequent endorsements. Subsequent endorsements may be added to any existing PEL by passing the content exam and completing 18 semester hours of coursework in the content area. These endorsements can be added at any grade level even if the underlying teaching endorsement on the PEL is a different grade range. Educators with these subsequent endorsements are eligible to teach all courses within the pathways listed under Course Assignability. More information regarding these endorsements can be found at

<https://www.isbe.net/Pages/Subsequent-Teaching-Endorsements.aspx>.

NOTE: Please note that as of the most recent update to Section 1.737 on April 21, 2021, “A district may...employ an individual who holds a professional educator license endorsed for the secondary grades with the appropriate career and technical education endorsement but who **has not** completed requirements to demonstrate occupational/work experience in the occupational area to be taught.” Therefore, no evidence of work experience needs to be provided or maintained for educators with a relevant CTE PEL endorsement.

Short-term approval of a subsequent endorsement on a PEL can be available for up to three years for any educator who holds a PEL and has either

- a.) completed nine semester hours of coursework in the subject area to be taught, or
- b.) received a passing score on the corresponding Illinois Content Area Test. Career and Technical Education Endorsements for short-term approval will not be issued after July 1, 2023.

Table 1

Subsequent Endorsements with ELIS endorsement code	Course Assignability	Endorsement Code
Agricultural Education (5-12)	All courses in pathways listed: 01.000; 01.0101; 01.0201; 01.0601; 01.0401; 01.0901; 15.0507; 03.0101	• AGED
Business, Marketing, and Computer Education (5-12)	All courses in pathways listed: 11.0801; 31.0301; 52.0201; 52.0301; 52.0401; 52.0701; 52.0801; 52.0903; 52.0904; 52.1001; 52.1401	• BMC
Business, Marketing, and Computer Education – Business Computer Programming (5-12)	All courses in pathways listed: 11.0201; 11.0801; 11.0901; 31.0301; 52.0201; 52.0301; 52.0401; 52.0701; 52.0801; 52.0903; 52.0904; 52.1001; 52.1401	• BMCP
Computer Applications (5-12)	All courses in pathway listed: 11.0201; 11.0801; 11.0901	• COAP
Computer Science (5-12)	All courses in pathways listed: 11.0201; 11.0701; 11.0801; 11.0901; 47.0104	• COSC
Family and Consumer Science (5-12)	All courses in pathways listed: 12.0500; 13.0101; 13.1210; 19.0501; 19.0601; 19.0702; 19.0709; 19.0901; 19.1001; 31.0301; 52.0903; 52.0904	• FACS
Technology Education (Industrial Arts) (5-12)	All courses in pathways listed: 15.0000; 15.1701; 15.1703; 15.1704; 10.0301; 50.0406; 10.0202; 15.1301; 46.0302; 46.0401; 47.0201; 47.0302; 46.0000; 47.0603; 47.0604; 47.0608; 49.0209; 47.0104; 47.0105; 47.0409; 48.0501; 48.0506; 48.0508; 48.0703	• TEED

Table 2: Career and Technical Education Course Assignability by Educator License with Stipulations

The endorsements found in Table 2 represent valid CTE Educator License with Stipulations (ELS-CTE) endorsements. These endorsements may be attained by completing a minimum of 60 semester hours from a regionally accredited institution or an accredited trade and technical institution at the 100-level or higher, and completing a minimum of 2,000 documented hours of experience outside of education in the area to be taught. Work experience for Classification of Instructional Program codes (CIPs) 13.0101 Education, General; and 13.120 Early Childhood Education and Training can be earned through classroom experience as an educator. Applicants can also attain Provisional Educator License with Stipulations (ELS-CTEP) by completing a minimum of 8,000 documented hours of work experience in the skill that will be taught. More information regarding these endorsements can be found at <https://www.isbe.net/Pages/career-technical-educator.aspx>.

Short-term approval of an ELS-CTE on a PEL or on another ELS-CTE with one year of teaching experience can be available for up to three years for any educator who holds a PEL or ELS-CTE and has at least 240 hours of relevant work experience. Career and Technical Education Endorsements for short-term approval will not be issued after July 1, 2023.

Table 2

CTE Licensing Endorsement Title of new teaching endorsement	CTE Pathway CIP/pathways tied to this endorsement	Course Assignability Courses that can be taught by a teacher with this endorsement	Previous Endorsement Code(s)	New Endorsement Code
Business Management (FBS)	<ul style="list-style-type: none"> Business Management & Administration (52.0201) Entrepreneurship/Entrepreneurial Studies (52.0701) 	<ul style="list-style-type: none"> All courses in pathways listed (52.0201; 52.0701; 52.0401) 	EES, EMOE	BEHA
Human Resources (FBS)	<ul style="list-style-type: none"> Human Resources Management/Personnel Administration (52.1001) 	<ul style="list-style-type: none"> All courses in pathways listed (52.1001; 52.0401) 	N/A	HURE
Administrative Assistant (FBS)	<ul style="list-style-type: none"> Administrative Assistant and Secretarial Sciences (52.0401) 	<ul style="list-style-type: none"> All courses in pathways listed (52.0401) 	AASS, ASIP	ADAS
Finance (FBS)	<ul style="list-style-type: none"> Finance, General (52.0801) Accounting (52.0301) 	<ul style="list-style-type: none"> All courses in pathways listed (52.0801; 52.0301) 	ATTB, BPFM, ACBK	FGA
Marketing (FBS)	<ul style="list-style-type: none"> Marketing (52.1401) 	<ul style="list-style-type: none"> All courses in pathways listed (52.1401) 	SDMO, BPFM, BPMS, PMKO	MARK
Real Estate (FBS) †	<ul style="list-style-type: none"> Real Estate (52.1501) 	<ul style="list-style-type: none"> All courses in pathways listed (52.1501) 	N/A	REAL

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Information Technology (IT)	<ul style="list-style-type: none"> • Computer Programming/Programmer, General (11.0201) • Computer Science (11.0701) • Web Page, Digital/Multimedia, and Information Resources Design (11.0801) • Computer Networking (11.0901) 	<ul style="list-style-type: none"> • All courses in pathways listed (11.0201; 11.0701; 11.0801; 11.0901; 47.0104) 	CPSA, CSNT, WDIR, WDIR, BSNW, COP, COPG, NET	INFT
Biotechnology Systems	<ul style="list-style-type: none"> • Biotechnology Systems (01.0000) 	<ul style="list-style-type: none"> • All courses in pathway (01.000) 	AGSI, AGSC	ABIO
Agribusiness Systems	<ul style="list-style-type: none"> • Agribusiness Systems (01.0101) 	<ul style="list-style-type: none"> • All courses in pathway (01.0101) 	AGBM	ABUS
Power, Structural, and Technical Systems	<ul style="list-style-type: none"> • Power, Structural and Technical Systems (01.0201) 	<ul style="list-style-type: none"> • All courses in pathway (01.0201) 	AGMT, AMTC	APST
Plant Systems	<ul style="list-style-type: none"> • Plant Systems (01.0601) 	<ul style="list-style-type: none"> • All courses in pathway (01.0601) 	HORI	AGPS
Food Products and Processing Systems	<ul style="list-style-type: none"> • Food Products and Processing Systems (01.0401) 	<ul style="list-style-type: none"> • All courses in pathway (01.0401) 		AFPP
Animal Systems	<ul style="list-style-type: none"> • Animal Systems (01.0901) 	<ul style="list-style-type: none"> • All courses in pathway (01.0901) 		AGAS
Environmental Service Systems	<ul style="list-style-type: none"> • Environmental Service Systems (15.0507) 	<ul style="list-style-type: none"> • All courses in pathway (15.0507) 		AESS
Natural Resource Systems	<ul style="list-style-type: none"> • Natural Resource Systems (03.0101) 	<ul style="list-style-type: none"> • All courses in pathway (03.0101) 	NRC, NRCM	ANRS
Cosmetology (HPS) †	<ul style="list-style-type: none"> • Cosmetology/Cosmetologist, General (12.0401) 	<ul style="list-style-type: none"> • All courses in pathway (12.0401) 	COSG, CSM	CSTG

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Barbering (HPS) †	<ul style="list-style-type: none"> Barbering/Barber (12.0402) 	<ul style="list-style-type: none"> All courses in pathway (12.0402) 	BRB	BRBR
Nail Technician (HPS) †	<ul style="list-style-type: none"> Nail Technician/Specialist and Manicurist (12.0410) 	<ul style="list-style-type: none"> All courses in pathway (12.0410) 	NTSM	NSAM
Hospitality & Tourism (HPS)	<ul style="list-style-type: none"> Tourism and Travel Services Management (52.0903) Hotel/Motel Management (52.0904) Parks, Recreation, and Leisure Facilities Management (31.0301) 	<ul style="list-style-type: none"> All courses in pathways listed (52.0903; 52.0904; 31.0301) 	FPMC	HOSP
Family and Consumer Science – Work and Family Studies (HPS)	<ul style="list-style-type: none"> Work and Family Studies (19.1001) 	<ul style="list-style-type: none"> All Orientation and Introductory courses for the following pathways listed (19.1001; 19.0702; 19.0709; 44.0701) All courses in pathway (19.1001) 	WFSC	FCWF
Family and Consumer Science – Adult Development and Aging (HPS)	<ul style="list-style-type: none"> Adult Development and Aging (19.0702) 	<ul style="list-style-type: none"> All Orientation and Introductory courses for the following pathways listed (19.1001; 19.0702; 19.0709; 44.0701) All courses in pathway (19.0702) All courses in Work and Family Studies (19.1001) 	ADDA	FCDA

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Family and Consumer Science – Child Care Provider (HPS)	<ul style="list-style-type: none"> Child Care Provider (19.0709) 	<ul style="list-style-type: none"> All Orientation and Introductory courses for the following pathways listed (19.1001; 19.0702; 19.0709; 44.0701) All courses in pathway (19.0709) All courses in Work and Family Studies (19.1001) 	CCP, CCPA, CCSM	FCCP
Family and Consumer Science – Social Work (HPS)	<ul style="list-style-type: none"> Social Work (44.0701) 	<ul style="list-style-type: none"> All Orientation and Introductory courses for the following pathways listed (19.1001; 19.0702; 19.0709; 44.0701) All courses in pathway (44.0701) All courses in Work and Family Studies (19.1001) 	N/A	FCSW
Education & Training (HPS) <i>*Please see special note on Page 1 of these document</i>	<ul style="list-style-type: none"> Education, General (13.0101) 	<ul style="list-style-type: none"> All courses in pathway (13.0101) All courses in Work and Family Studies (19.1001) 	EDUG	EDTN
Early Childhood Education (HPS)	<ul style="list-style-type: none"> Early Childhood Education and Training (13.1210) 	<ul style="list-style-type: none"> All courses in pathway (13.1210) All courses in Child Care Provider (19.0709) All courses in Work and Family Studies (19.1001) 	ECET, ECC	ECED
Family and Consumer Science – Foods, Nutrition and Culinary Arts (HPS)	<ul style="list-style-type: none"> Foods, Nutrition, and Wellness Studies (19.0501) Cooking and Related Culinary Arts (12.0500) 	<ul style="list-style-type: none"> All courses in pathways listed (19.0501; 12.0500) 	CRCA, FNWS	FNCC

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Family and Consumer Science – Fashion and Environmental Design	<ul style="list-style-type: none"> Housing and Human Environments, General (19.0601) Apparel and Textile, General (19.0901) 	<ul style="list-style-type: none"> All courses in pathways listed (19.0601; 19.0901) 	FPMC, ATMC, ATMM, ATM	FCED
Legal Studies/Pre-Law (HPS)	<ul style="list-style-type: none"> Legal Assistant/Paralegal (22.0302) 	<ul style="list-style-type: none"> All courses in pathway (22.0302) 	PLS, LPCP, PRL	LSPL
Fire Science (HPS)	<ul style="list-style-type: none"> Fire Science/Firefighting (43.0203) 	<ul style="list-style-type: none"> All courses in pathway (43.0203) All courses in Public Administration (44.401) 	FSFF, LPCF	FIRE
Law Enforcement (HPS)	<ul style="list-style-type: none"> Criminal Justice/Police Science (43.0107) 	<ul style="list-style-type: none"> All course in pathway listed (43.0107) All courses in Security and Loss Prevention Services (43.0109) All courses in Public Administration (43.0401) 	CJPS, LPCC	LAWE
Security (HPS)	<ul style="list-style-type: none"> Security and Loss Prevention Services (43.0109) 	<ul style="list-style-type: none"> All courses in pathway (43.0109) 	N/A	SECU
Public Administration (HPS)	<ul style="list-style-type: none"> Public Administration (44.0401) 	<ul style="list-style-type: none"> All courses in pathway (44.0401) 	N/A	PADM
<u>Air Force JROTC (HPS)**</u>	<ul style="list-style-type: none"> Air Force JROTC (28.0101) 	<ul style="list-style-type: none"> All courses in Air Force JROTC (28.0101) 	N/A	AIRF
<u>Army JROTC (HPS)**</u>	<ul style="list-style-type: none"> Army JROTC (28.0301) 	<ul style="list-style-type: none"> All courses in Army JROTC (28.0301) 	N/A	ARMY
<u>Navy/Marine Corps JROTC (HPS)**</u>	<ul style="list-style-type: none"> Navy/Marine Corps JROTC (28.0401) 	<ul style="list-style-type: none"> All courses in Navy/Marine Corps JROTC (28.0401) 	N/A	NAVM
Health Science (HST)	<ul style="list-style-type: none"> Health Services/Allied Health/Health Sciences (51.0000) 	<ul style="list-style-type: none"> All courses in Health Services/Allied Health/Health Sciences (51.0000) 	HAHS, RTTA, MRTS, STT, OPTH, HHAH, RHAB HRCS, HPCS,	HESC

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			HPRC, HPRS, HRCS	
Dental Assistant (HST)	<ul style="list-style-type: none"> Dental Assisting/Assistant (51.0601) 	<ul style="list-style-type: none"> All courses in pathway (51.0601) 	DAA	DENT
Health Unit Coordinator (HST)	<ul style="list-style-type: none"> Health Unit Coordinator/Ward Clerk (51.0703) 	<ul style="list-style-type: none"> All courses in pathway (51.0703) 	HCWC	HEUC
Medical Coding (HST)	<ul style="list-style-type: none"> Medical Insurance Coding Specialist/Coder (51.0713) 	<ul style="list-style-type: none"> All courses in pathway (51.0713) All courses in Health Unit Coordinator/Ward Clerk (51.0703) 	MICS	MEDC
Medical Assistant (HST)	<ul style="list-style-type: none"> Medical/Clinical Assistant (51.0801) 	<ul style="list-style-type: none"> All courses in pathway (51.0801) All courses in Health Unit Coordinator/Ward Clerk (51.0703) 	MCA, CLS	MEDA
Pharmacy Technician (HST)	<ul style="list-style-type: none"> Pharmacy Technician/Assistant (51.0805) 	<ul style="list-style-type: none"> All courses in pathway (51.0805) 	PHTA	PHTC
ECG Technician (HST)	<ul style="list-style-type: none"> Electro-Cardiograph Technologist/Technician (51.0902) 	<ul style="list-style-type: none"> All courses in pathway (51.0902) 	ETT	ECGT
EMT-Basic (HST) ‡	<ul style="list-style-type: none"> Emergency Medical Technology/Technician (51.0904) 	<ul style="list-style-type: none"> All courses in pathway (51.0904) All courses in Health Services/Allied Health/Health Sciences (51.0000) 	EMTT, EMC	EMTB
Athletic Trainer (HST)	<ul style="list-style-type: none"> Athletic Training/Trainer (51.0913) 	<ul style="list-style-type: none"> All courses in pathway (51.0913) All courses in Health Services/Allied Health/Health Sciences (51.0000) 	ATHT, ATHT	ATTR

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Physical Therapy Aide (HST)	<ul style="list-style-type: none"> Physical Therapy Technician/Aide (51.2605) 	<ul style="list-style-type: none"> All courses in pathway (51.2605) All courses in Health Services/Allied Health/Health Sciences (51.0000) All courses in Athletic Training/Trainer (51.0913) 	PPTA, PHYT	PTAD
Biotechnology (HST)	<ul style="list-style-type: none"> Clinical/Medical Laboratory Technician (51.1004) 	<ul style="list-style-type: none"> All courses in pathway (51.1004) All courses in pathway Medical/Clinical Assistant (51.0801) All courses in Health Unit Coordinator/Ward Clerk (51.0703) 	CLSM, BIOM	BIOT
Phlebotomist (HST)	<ul style="list-style-type: none"> Phlebotomy Technician/Phlebotomist (51.1009) 	<ul style="list-style-type: none"> All courses in pathway (51.1009) All courses in Health Unit Coordinator/Ward Clerk (51.0703) 	PTT, PHLB	PHBO
Community Health Worker	<ul style="list-style-type: none"> Community Health Worker (51.1504) 	<ul style="list-style-type: none"> All courses in pathway (51.1504) 	N/A	CHWK
Certified Nursing Assistant (HST) <u>‡</u>	<ul style="list-style-type: none"> Nursing Assistant/Aide and Patient Care Assistant/Aide (51.3902) 	<ul style="list-style-type: none"> All courses in pathway (51.3902) All courses in pathways (51.0000; 51.0703; 51.0713; 51.0805; 51.1004; 51.1009) All courses in 51.0801 and 51.0902 for State approved pathways only, not national accreditation. 	NAPC, LPVN	CNAA

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STEM & Energy Systems (METT)	<ul style="list-style-type: none"> Engineering Technology, General (15.0000) Energy Systems Technology/Technician (15.1701) 	<ul style="list-style-type: none"> All courses in pathways listed (15.0000; 15.1701) 	ETG, ENGT	SENS
Solar Energy Technology/Technician	<ul style="list-style-type: none"> Solar Energy Technology/Technician (15.1703) 	<ul style="list-style-type: none"> All courses in pathway (15.1703) 	N/A	SETT
Wind Energy Technology/Technician	<ul style="list-style-type: none"> Wind Energy Technology/Technician (15.1704) 	<ul style="list-style-type: none"> All courses in pathway (15.1704) 	N/A	WETT
Journalism	<ul style="list-style-type: none"> Journalism (09.0401) 	<ul style="list-style-type: none"> All courses in pathway (09.0401) 	N/A	JOUR
Graphic Communications (A&C)	<ul style="list-style-type: none"> Graphic Communications (10.0301) 	<ul style="list-style-type: none"> All courses in pathway (10.0301) 	DIA, CAA, ADA, DGA, DPDI, GRA, IAM	GRCM
Photography (A&C)	<ul style="list-style-type: none"> Commercial Photography (50.0406) 	<ul style="list-style-type: none"> All courses in pathway (50.0406) 	CP	PHTG
Audio and Video Broadcasting (A&C)	<ul style="list-style-type: none"> Radio and Television Broadcasting Technology/Technician (10.0202) 	<ul style="list-style-type: none"> All courses in pathway (10.0202) 	RTBT, RTTA, BRO	AVBT
Architecture and Construction – Drafting and Design (METT)	<ul style="list-style-type: none"> Drafting and Design Technology/Technician (15.1301) 	<ul style="list-style-type: none"> All courses in pathway (15.1301) 	DDTG	ACDD
Architecture and Construction – Electrician (METT)	<ul style="list-style-type: none"> Electrician (46.0302) 	<ul style="list-style-type: none"> All courses in pathway (46.0302) 	ELE, EPTG	ACEE
Architecture and Construction – Building Maintenance (METT)	<ul style="list-style-type: none"> Building/Property Maintenance (46.0401) 	<ul style="list-style-type: none"> All courses in pathway (46.0401) All courses in Electrician (46.0302) All courses in Heating, Air Conditioning, Ventilation and Refrigeration Maintenance 	BPMC	ACBM

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		Technology/Technician (47.0201)		
Architecture and Construction – HVAC (METT)	<ul style="list-style-type: none"> Heating, Air Conditioning, Ventilation and Refrigeration Technology/Technician (47.0201) 	<ul style="list-style-type: none"> All courses in pathway (47.0201) All courses in Sheet Metal Technology/Sheet-working (48.0506) 	HACV	ACHV
Architecture and Construction – Heavy Equipment Technology(METT)	<ul style="list-style-type: none"> Heavy Equipment Technology/Technician (47.0302) 	<ul style="list-style-type: none"> All courses in pathway (47.0302) 	HETT	ACHT
Architecture and Construction – Construction Trades (METT)	<ul style="list-style-type: none"> Construction Trades, General (46.0000) 	<ul style="list-style-type: none"> All courses in pathway (46.0000) 	CTG, PTP	ACTR
Transportation, Distribution, and Technology – Auto-body Technology (METT)	<ul style="list-style-type: none"> Auto-body/Collision and Repair Technology/Technician (47.0603) 	<ul style="list-style-type: none"> All courses in pathway (47.0603) 	ACRT, AUTO	TDTA
Transportation, Distribution, and Technology – Automotive Technology (METT)	<ul style="list-style-type: none"> Automobile/Automotive Mechanics Technology/Technician (47.0604) 	<ul style="list-style-type: none"> All courses in pathway (47.0604) 	AMTT, SEMT, VME	TDTT
Transportation, Distribution, and Technology – Aircraft Technology (METT)	<ul style="list-style-type: none"> Aircraft Power-plant Technology/Technician (47.0608) 	<ul style="list-style-type: none"> All courses in pathway (47.0608) 	ACPT, AER, APTT	TAIR
Transportation, Distribution, and Technology – Professional Pilot (METT)	<ul style="list-style-type: none"> Airline/Commercial/ Professional Pilot and Flight Crew (49.0102) 	<ul style="list-style-type: none"> All courses in pathway (49.0102) 	APFC, AIR	TPIL
Transportation, Distribution, and Technology – Truck and Bus Driver (METT)§	<ul style="list-style-type: none"> Truck and Bus Driver/Commercial Vehicle Operator and Instructor (49.0205) 	<ul style="list-style-type: none"> All courses in pathway (49.0205) 	N/A	TTBD
Transportation, Distribution, and Technology – Forklift Operations (METT)	<ul style="list-style-type: none"> Forklift Operations/Operator (49.0209) 	<ul style="list-style-type: none"> All courses in pathway (49.0209) 	N/A	TFOR
Manufacturing – Computer Installation Repair (METT)	<ul style="list-style-type: none"> Computer Installation and Repair Technology/Technician (47.0104) 	<ul style="list-style-type: none"> All courses in pathway (47.0104) 	CIRT, COM	MCIR

CTE Licensing Endorsement Title of new teaching endorsement	CTE Pathway CIP/pathways tied to this endorsement	Course Assignability Courses that can be taught by a teacher with this endorsement	Previous Endorsement Code(s)	New Endorsement Code
Manufacturing – Industrial Electronics (METT)	<ul style="list-style-type: none"> Industrial Electronics Technology/Technician (47.0105) 	<ul style="list-style-type: none"> All courses in pathway (47.0105) All courses in Electrician (46.0302) 	IETT, IMMT	MIEL
Manufacturing – Parts and Warehousing Operations (METT)	<ul style="list-style-type: none"> Parts and Warehousing Operations and Maintenance Technician (47.0409) 	<ul style="list-style-type: none"> All courses in pathway (47.0409) 	PWOM, WARO	MPWO
Manufacturing – Machinist (METT)	<ul style="list-style-type: none"> Machine Tool Technology/Machinist (48.0501) 	<ul style="list-style-type: none"> All courses in pathway (48.0501) 	MTT, MTTM, METF	MNMC
Manufacturing – Sheet-working (METT)	<ul style="list-style-type: none"> Sheet Metal Technology/Sheet-working (48.0506) 	<ul style="list-style-type: none"> All courses in pathway (48.0506) 	SMTS	MSWK
Manufacturing – Welding Technology (METT)	<ul style="list-style-type: none"> Welding Technology/Welder (48.0508) 	<ul style="list-style-type: none"> All courses in pathway (48.0508) 	WTW, WPDD	MWEL
Manufacturing – Cabinetmaking (METT)	<ul style="list-style-type: none"> Cabinetmaking and Millwork (48.0703) 	<ul style="list-style-type: none"> All courses in pathway (48.0703) 	CMMW	MCAB