

CTE Authorization Crosswalk Updated 2/7/24								
CTE Authorization - Career Cluster Areas	CIP codes (Classification of Instructional Programs)	Content Area	Endorsement Name	What can they teach? - SCED codes	Endorsement Number	Skillset. What type of experience are we looking for?	Endorsement #962 = Valid License and an endorsement for appropriate grade	
Agriculture: Food and Natural Resources	01.0101, 01.0000	Agribusiness	5-12 Agri-business	18001, 18002, 18003, 18004, 18005, 18051, 18052, 18053, 18053, 18054, 18055, 18056, 18097, 18098, 18101, 18102, 18103, 18104, 18105, 18106, 18147, 18148, 18149, 18205, 18247, 18248, 18249, 18301, 18302, 18303, 18304, 18305, 18306, 18307, 18308, 18309, 18310, 18311, 18347, 18348, 18349, 18401, 18402, 18403, 18404, 18405, 18406, 18447, 18448, 18501, 18502, 18504, 18505, 18506, 18547, 18548, 18901, 19902, 18903, 18995, 18996, 18997	#300	many other codes under #962, Experience running an Agri. related Business.	Endorsement #962 = Valid License and an endorsement for appropriate grade	
Agriculture: Food and Natural Resources	01.0201	Power Structure- Ag. Mechanics	5-12 Small Engine Repair, 5-12 Welding	20109, 20110, 20111, 20401, 20402, 20403, 20404, 20405	#387 or 368, 300	small tractor, lawn mower or motor bike repair & maintenance		
Agriculture: Food and Natural Resources	01.1101/01.0601	Plant Systems	5-12 Horticulture	18052, 18053, 18044,18055, 18056, 18097, 18098, 18099	#384	crop production		
Agriculture: Food and Natural Resources	01.0901	Crop and Animal Production	5-12 Production Ag	18301, 18302, 18303, 18304, 18305,	#383	Animal or crop production		
Agriculture: Food and Natural Resources	01.0901	Animal Systems	5-12 Animal Systems		#341 or 347	Animal production, or management of animal confinement		
Agriculture: Food and Natural Resources	01.0901	Veterinarian Occupations	5-12 Veterinarian Technology	18102, 18103, 18104, 18105	#347 or 300	care of animals, Vet or Vet. assistant employment		
Agriculture: Food and Natural Resources	01.0303	Aquaculture	5- 12 Aquarium Science		#341	Fish or sea life production or care		
Agriculture: Food and Natural Resources	3.0103	Natural Resource/Environmental Systems	5-12 Environmental Systems	none	#330	Set aside acre maintenance, or watershed development		
Architecture, Construction, Manufacturing	46.0000	Building Trades	5-12 Building Trades,	17001, 17002, 17003, 17004, 17005, 17008, 17047, 17048, 17049, 17901, 17902, 17995, 17997, 17998, 17999,	#370	general construction		
Architecture, Construction, Manufacturing	46.0000		5-12 Carpentry	17001, 17002, 17003, 17004, 17005, 17047, 17048, 17049,	#372	Framing, shed or furniture construction		
Architecture, Construction, Manufacturing	46.0000	Drywalling/Painting	5-12 Drywalling/Painting	17011,	#321	drywall installation, mudding, texturing or painting		
Architecture, Construction, Manufacturing	46.0000	Masonry	5-12 Masonry	17008,	#351	cement installation or brick work		
Architecture, Construction, Manufacturing	46.0000	Cabinet making	5-12 Cabinet Making	17006, 17007,	#379	building or assembling cabinets		
Architecture, Construction, Manufacturing	46.0000	Electrical	5-12 Electricity	17101, 17102, 17103, 17104, 17105, 17105, 17108, 17109, 17149,	#377	residential or commercial wiring and electrical supply connections, power supply i.e. generator installation		
Architecture, Construction, Manufacturing	46.000	Electrical	5-12 Electrical Engineering	17101, 17102, 17103, 17104, 17106, 17106, 17108, 17109, 17110, 17111, 17112, 14147, 17148, 17149	#338, or 326	basic electrical wiring, power supply, analog & electrical engineering		
Architecture, Construction, Manufacturing	46.0000	HVAC	5-12 Refrigeration/Air Conditioning	17051, 17052, 17053, 17054, 17055, 17056, 17057, 17059	#362	HVAC work or small appliance installation, cooler/freezer installation		
Architecture, Construction, Manufacturing	46.0000	Plumbing	5-12 Plumbing	17051, 17052, 17053, 17054, 17055, 17056, 17057, 17059	#362	general plumbing, pipe fitting, steam power installation		
Architecture, Construction, Manufacturing	46.0000	maintenance	5-12 Building and Home Maintenance	17009,	#342	general maintenance of commercial blgds or homes		
Architecture, Construction, Manufacturing	15.1301	Drafting	5-12 Drafting - Architectural,	21001, 21002, 21003, 21004, 21005, 21006, 21007, 21017, 21018, 21021, 21049, 21056, 21101, 21102, 21103, 21104, 21105, 21106, 21107, 21108, 21147, 21148, 21149	#356	Blueprint writing or reading, design of roads, bridges, water systems or buildings		
Architecture, Construction, Manufacturing	15.1301	Drafting	5-12 Drafting - Machine	21001, 21002, 21003, 21004, 21005, 21006, 21007, 21017, 21018, 21021, 21049, 21056, 21101, 21102, 21103, 21104, 21105, 21106, 21107, 21108, 21147, 21148, 21149	#355	Graphic schematics/blueprints, CNC programming, factoring machining, tool & die assembly and production		
Architecture, Construction, Manufacturing	15.1301	CAD	5-12 Drafting	21001, 21002, 21003, 21004, 21005, 21006, 21007, 21017, 21018, 21021, 21049, 21056, 21101, 21102, 21103, 21104, 21105, 21106, 21107, 21108, 21147, 21148, 21149	#354	general blueprint reading and use		
Architecture, Construction, Manufacturing	15.1301	Metals and Tool and Die	5-12 Machine Shop	21001, 21002, 21003, 21004, 21005, 21006, 21007, 21017, 21018, 21021, 21049, 21056, 21101, 21102, 21103, 21104, 21105, 21106, 21107, 21108, 21147, 21148, 21149	#371	CNC work, metal working & assembly for factories, tool & die assembly and production		
Architecture, Construction, Manufacturing	48.0508	Welding	5-12 Welding	13207, 13208	#368	Arc welding and soldering		
Architecture, Construction, Manufacturing	15.1301	Computer Aided Drafting	5-12 Drafting - Machine	21001, 21002, 21003, 21004, 21005, 21006, 21007, 21017, 21018, 21021, 21049, 21056, 21101, 21102, 21103, 21104, 21105, 21106, 21107, 21108, 21147, 21148, 21149	#355	CAD, CNC, tool & die assembly and production		
Architecture, Construction, Manufacturing		Logistics & Inventory Control	5-12 Logistics & Inventory Control	none	#329	many other codes under #962 warehouse manager, inventory control & distribution of products	Endorsement #962 = Valid License and an endorsement for appropriate grade	
Transportation	47.0604	Automotive Repair	5-12 Auto Mechanics	20103, 20104, 20105, 20106, 20119, 20120,	#373	Auto engine maintenance & repair		

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Transportation	47.0603	Auto body repair	5-12 Auto Body Repair	20115, 20116, 20117, 20118	#366	Auto/boat body repair	
Transportation	47.0605	Diesel Repair	5-12 Diesel Mechanics	20107, 20108, 20112	#357	diesel engine maintenance & repair	
Transportation	47.0604	Boat, motorcycle, snowmobile, lawn mower & ATV repair	5-12 Small Engine Repair	20109, 20110, 20111,	#387	small tractor, lawn mower or motor bike repair & maintenance	
Manufacturing or Technology	15.0613	Robotics & Automation (CIP)	5-12 Electronics	17105, 17106, 17107, 17108, 17109, 17110, 17111, 17112, 17147,	#350	many other codes under #962 soldering, curcuit board assesbly or repair, small machine repair	Endorsement #962 = Valid License and an endorsement for appropriate grade
Arts, AV, Technology & Communication	10.0301	Journalism	5-12 Printing/Publishing	11001, 11002, 11003, 11047, 11048	#343	many other codes under #962 newspaper printing/publishing work, print machine or computer design layout work	Endorsement #962 = Valid License and an endorsement for appropriate grade
Arts, AV, Technology & Communication	50.0406	Photography	5-12 Photography	11001, 11002, 11003, 11047, 11048, 11052, 11053, 11054,11055, 11056, 11097, 11098,	#333	many other codes under #962 camera work, photo taking and graphic manipulation of pics or .jpg documents	Endorsement #962 = Valid License and an endorsement for appropriate grade
Arts, AV, Technology & Communication	15.1202	Software systems	5-12 Computer Servicing Technology	10151, 10252, many other codes under #962	#344, 348	many other codes under #962 computer serving/repair, software/hardware updates, network development and servicing	Endorsement #962 = Valid License and an endorsement for appropriate grade
Arts, AV, Technology & Communication	15.1202	Hardware (IT) development and maintenance	5-12 Computer Servicing Technology	10151, 10252, many other codes under #962	#344, 348	many other codes under #962 computer serving/repair, software/hardware updates, network development and servicing	Endorsement #962 = Valid License and an endorsement for appropriate grade
Arts, AV, Technology & Communication	11.0201	Computer Programming	5-12 Computer Servicing Technology, 5-12 Data Programming, 5-12 Data Processing	10005, 10151, many other codes under #962	#348, 352-Programming, 353-Processing	many other codes under #962 data entry & manipulation, data entry & programming, network development & servicing	Endorsement #962 = Valid License and an endorsement for appropriate grade
Arts, AV, Technology & Communication	15.1202	Information Management	5-12 Data Programming, 5-12 Data Processing	10005, 10151, many other codes under #962	#352, 353	many other codes under #962 data entry & manipulation, data entry & programming, network development & servicing	Endorsement #962 = Valid License and an endorsement for appropriate grade
Arts, AV, Technology & Communication	10.0301	Web page design, layout & design (CIP)	5-12 Graphic Arts	11001, 11002, 11003, 11047, 11048, 11052, 11053, 11054,11055, 11056, 11097, 11098,	#369	many other codes under #962 graphic manipulation of pics or .jpg documents, computer design & image design for marketing	Endorsement #962 = Valid License and an endorsement for appropriate grade
Arts, AV, Technology & Communication	10.0301	Multimedia presentation	5-12 Graphic Arts	11001, 11002, 11003, 11047, 11048, 11052, 11053, 11054,11055, 11056, 11097, 11098,	#369	many other codes under #962 graphic manipulation of pics or .jpg documents, computer design & image design for marketing	Endorsement #962 = Valid License and an endorsement for appropriate grade
Arts, AV, Technology & Communication	10.0301	Printing Press Operation/Graphic Design/ Newspaper publication	5-12 Graphic Arts, 5-12 Printing/Publishing	11001, 11002, 11003, 11047, 11048, 11052, 11053, 11054,11055, 11056, 11097, 11098,	#369, 343 - Printing/Publishing	many other codes under #962 graphic manipulation of pics or .jpg documents, computer design & image design for marketing newspaper printing/publishing work, print machine or computer design layout work	Endorsement #962 = Valid License and an endorsement for appropriate grade
Arts, AV, Technology & Communication	10.0202	Radio & TV	5-12 Radio & TV	11001, 11002, 11003, 11047, 11048, 11103, 11104, 11105, 11147, 11148,	#380	many other codes under #962 TV or radio programming or editing, broadcating or film or audio recording	Endorsement #962 = Valid License and an endorsement for appropriate grade
Arts, AV, Technology & Communication	11.0901	Telecommunications	5-12 Radio & TV	11001, 11002, 11003, 11047, 11048, 11103, 11104, 11105, 11147, 11148,	#380	many other codes under #962 satellite & network development, cellular or WIFI wiring or network development	Endorsement #962 = Valid License and an endorsement for appropriate grade
Health Care Occupations	51.0000	Certified Nursing Assistant (CNA)	5-12 Practical Nursing,5-12 Health Occupations, nurses aide	14051, 14052, 14053,	#385, 382- nurses aide (CNA)	medical work nurse, RN, LPN, ARNP, PA, CNA or PCP	
Health Care Occupations	51.0000	Health Occupations	5-12 General Health Occupations, 5-12 Health Occupations, nurses aide	14001, 14002, 14003, 14054, 14055, 14051, 14052, 14053, 14056, 14057, 14058, 14059, 14060, 14061, 14062, 14063, 14097, 14098, 14099, 14101, 14102, 14103, 14104, 14105, 14147, 14148, 14149, 14150, 14151, 14152, 14153, 14154, 14155, 14156, 14157, 14197, 14198, 14201, 14202, 14203, 14247, 14248, 14249, 14255, 14297, 14298, 14299, 14901,1 4902, 14903, 14997, 14998,	#299, 382- nurses aide (CNA)	any medical profession, doctor, nurse, CNA, therapist, athl. trainer, nutritionist, lab work or radiologist	
Health Care Occupations	51.0000	Health care management	5-12 General Health Occupations	14001, 14002, 14003, 14054, 14055, 14051, 14052, 14053, 14056, 14057, 14058, 14059, 14060, 14061, 14062, 14063, 14097, 14098, 14099, 14101, 14102, 14103, 14104, 14105, 14147, 14148, 14149, 14150, 14151, 14152, 14153, 14154, 14155, 14156, 14157, 14197, 14198, 14201, 14202, 14203, 14247, 14248, 14249, 14255, 14297, 14298, 14299, 14901,1 4902, 14903, 14997, 14998,	#299	hospital admin, nurse manager, or billing office manager	
Health Care Occupations	51.0000	Pharmacy	5-12 Pharmacy	14152,	#334	Pharmacist, or Pharm Asst.	
Health Care Occupations	51.0000	Emergency Medical Services	5-12 Emergency Medical Services	14055,	#386	EMT, paramedic, fire figher or First responder (if medically trained)	
Health Care Occupations	51.0000	Hair care	5-12 Cosmetology	19101, 19102, 19103, 19104, 19105, 19106, 19107, 19147, 19148, 19149	#378	Hairdresser, barber	

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Health Care Occupations	51.0000	Medical terminology	5-12 General Health Occupations	14001, 14002, 14003, 14054, 14055, 14051, 14052, 14053, 14056, 14057, 14058, 14059, 14060, 14061, 14062, 14063, 14097, 14098, 14099, 14101, 14102, 14103, 14104, 14105, 14147, 14148, 14149, 14150, 14151, 14152, 14153, 14154, 14155, 14156, 14157, 14197, 14198, 14201, 14202, 14203, 14247, 14248, 14249, 14255, 14297, 14298, 14299, 14901, 1 4902, 14903, 14997, 14998.	#299	any medical profession, doctor, nurse, CNA, therapist, athl. trainer, nutritionist, lab work or radiologist, medical work nurse, RN, LPN, ARNP, PA, CNA or PCP	
Education/Human Services	13.1210	Early Childhood, Pre-school, day care	5-12 Career FCS - Child Care	19051, 19052, 19053, 19054, 19055, 19097, 19098, 19099, 19153, 19154, 19201, 19202, 19203, 19240, 19205, 019206, 19207, 19247, 19248, 19249, 19151, 19152.	#388, 303, 304	pre-school teacher or asst., paid work in childcare/pre-school	
Education/Human Services	19.0707	Family & Community Services	5-12 Family & Community Services	19901, 19902, 19997, 19998, 19999, 19251, 12053, , 19001,	#322, 304	DHS worker, counselor for youth/families, or dependent adults, ISU extension	
Business, Management, Finance & Banking	52.0101	Business	5-12 Office Education	12001, 12002, 12003, 12004, 12005, 12008, 12009, 12047, 12048, 12049, 12104,	#302	many other codes under #962 any business work or exp: insurance, finance, marketing, sales, retail, food industry, manager or supervisor	Endorsement #962 = Valid License and an endorsement for appropriate grade
Business, Management, Finance & Banking	52.0101						
Business, Management, Finance & Banking	52.0101	Accounting	5-12 Accounting	12104, 12109, 12110,	#3001	many other codes under #962 accounting paid work	Endorsement #962 = Valid License and an endorsement for appropriate grade
Business, Management, Finance & Banking	52.0101	Actuarial	5-12 Actuarial Science	12001, 12002, 12003, 12004, 12005, 12008, 12009, 12047, 12048, 12049, 12104, 12104, 12109, 12110,	#332	many other codes under #962 accurist, or fiduciary services	Endorsement #962 = Valid License and an endorsement for appropriate grade
Business, Management, Finance & Banking	52.0101	Finance	5-12 Banking and Investment Occupations	12001, 12002, 12003, 12004, 12005, 12008, 12009, 12047, 12048, 12049, 12104, 12104, 12109, 12110,	#325	many other codes under #962 any banking, investment or fiduciary employment	Endorsement #962 = Valid License and an endorsement for appropriate grade
Business, Management, Finance & Banking	52.0101	Insurance occupations	5-12 Insurance Occupations	many codes under #962	#324	many other codes under #962 insurance office work, or investigator, adjustor or claims	Endorsement #962 = Valid License and an endorsement for appropriate grade
Business, Management, Finance & Banking	52.0701	Entrepreneur	5-12 Entrepreneurship	many codes under #962	#331 or 336	many other codes under #962 small business ownership, or management	Endorsement #962 = Valid License and an endorsement for appropriate grade
Marketing	52.1401	Marketing	5-12 Marketing/Distributive Ed.	12052, 12053, 12055, 12056, 12057, 12508, 12059, 12060, 12151, 12152, 12153, 12154, 12155, 12156, 12157, 12158, 12159, 12160, 12161, 12162, 12163, 12164, 12165, 12166, 12167, 12197, 12198, 12199, 12201, 12202, 12247, 1248, 12249, 12901, 12902, 12997, 12998, 12999,	#301	many other codes under #962 marketing experience within a business, also usually get 5-12 Office Ed.	Endorsement #962 = Valid License and an endorsement for appropriate grade
Work Based Learning		WBL	5-12 Work Based learning Coordinator	22998, 50040	#290 or #305	TBD	
Aviation		Aviation Technology	5-12 Aviation Technology,	20053,	#345	airline pilot or air traffic control, many military related experiences qualify	
Aviation		Aviation Mechanic	5-12 Airframe Mechanic	20113, 20114, 21055	#365	airframe repair, maintenance or engine repair, many military related experiences qualify	
Law & Public Safety	43.0107	Protective Services	5-12 Law Enforcement	15001, 15051, 15052, 15053, 15054, 15055, 15056, 15057, 15097, 15098, 15099, 15101, 15102, 15103, 15104, 15147, 15148, 15149, 15201, 15202, 15203,	#360	law enforcement, fire fighting, DNR officers	
Law & Public Safety	43.0107	Wildlife & Game enforcement	5-12 Law Enforcement	15001, 15051, 15052, 15053, 15054, 15055, 15056, 15057, 15097, 15098, 15099, 15101, 15102, 15103, 15104, 15147, 15148, 15149, 15201, 15202, 15203,	#360	DNR officers, conservation worker	
Law & Public Safety	43.0107	Corrections	5-12 Law Enforcement	15001, 15051, 15052, 15053, 15054, 15055, 15056, 15057, 15097, 15098, 15099, 15101, 15102, 15103, 15104, 15147, 15148, 15149, 15201, 15202, 15203,	#360	jailer, or prison guard or worker/supervisor	
Law & Public Safety		ROTC		09001, 09002, 09003, 09051, 09052, 09053, 09054, 09101, 09102, 09103, 09104, 09151, 09152, 09153, 09154, 09201, 09202, 09995, 09997, 09998, 09999	#374	any military related experiences qualify	
Law & Public Safety	43.0107	Careers in Fire response services	5-12 Emergency Medical Services	15151, 15152, 15153, 15197, 15198, 15999, 15201, 15202, 15203, 15247, 15248, 15249, 15901, 15902, 15995, 15997, 15998, 15999,	#386	Fire fighting	
Law & Public Safety		Careers in Legal Services	5-12 Legal Services	15201, 15202, 15203	#323	many other codes under #962 lawyer, para-legal or judicial position	Endorsement #962 = Valid License and an endorsement for appropriate grade
Hospitality & Tourism	52.0901	Lodging/Hospitality/Tourism	5-12 Hospitality and Tourism	16101, 16102, 16104, 16147, 16148, 16149, 16151, 16152, 16153, 16154, 16155, 16197, 16198, 16199, 16204, 16901, 16902, 16997, 16999,	#339	many other codes under #962 Hotel/Motel employee/manager, caterer or event manager	Endorsement #962 = Valid License and an endorsement for appropriate grade
Hospitality & Tourism	12.0500	Restaurant, food service and Beverage	5-12 Career FCS - Food Service	16054, 16055, 16056, 16057, 16097, 16098, 16098,	#389	caterer, cook, server, bartender, nutritionist or kitchen prep	
Hospitality & Tourism	12.0500	Food Preparation & presentation	5-12 Culinary Arts	16001, 16051, 16052, 16053, 16054, 16055, 16056, 16057, 16097, 16098, 16098, 16099	#363, 303	caterer, cook, or nutritionist	
Hospitality & Tourism	19.0901	Textiles/Clothing	5-12 Career FCS - Fashion Merch	none	#390	clothing design, retail presentation or purchasing agent	

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