



Industrial and Emerging Technologies (IET)

ADE CTE Certification

“Industrial and Emerging Technologies” means occupations related to work experience in Communications Technologies/Technicians and Support; Computer and Information Sciences and Support Services; Cosmetology and Personal Grooming Services; Engineering/Engineering-Related Technologies/Technicians; Bioscience; Homeland Security, Law Enforcement, Firefighting and Related Protective Services; Construction Trades; Mechanical Repair Technologies/Technicians; Precision Productions; Transportation and Materials Moving; and Visual and Performing Arts as described NCES [Classification of Instructional Programs \(CIP\)](#) 2020 Edition: CIP Codes 09, 10, 11, 12, 14, 15, 28, 36, 41, 43, 46, 47, 48, 49, and 50.

Classification Area (CIP) and Related [CTE High School Programs](#)

- Biotechnology (CIP41): Bioscience (Health Careers and Agriculture)
- Communications Technologies (CIP09 and CIP10): Digital Animation, Digital Communications, and Digital Printing
- Computer and Information Sciences and Services (CIP11): Network Security, Software and App Design (Business and Marketing)
- Construction Trades (CIP46): Carpentry, Construction Technologies, Electrical and Power Transmission, and Plumbing
- Cosmetology and Professional Grooming Services (CIP12): Cosmetology
- Energy Systems Maintenance and Mechanical Repair Technologies (CIP47): Aircraft Mechanic; Automotive Collision Repair; Automotive Technologies; Diesel Engine Repair; Energy Systems; Heating, Ventilation, and Airconditioning; Heavy Industrial Maintenance
- Engineering/Engineering-Related Technologies (CIP14 and CIP15): Architectural Drafting; Automation and Robotics; Electronics Drafting; Engineering; Mechanical Drafting; Music and Audio Production, Technology Devices Maintenance (Business and Marketing)
- Homeland Security, Law Enforcement, Firefighting and Protective Services (CIP43): Emergency Medical Services (Health Careers), Fire Service, Law and Public Safety
- Precision Productions (CIP48): Cabinetmaking, Precision Machining, Welding Technologies
- Transportation and Materials Moving (CIP36 and CIP49): Air Transportation, Heavy Equipment Operations
- Visual and Performing Arts (CIP50): Digital Photography, Film and TV Productions, Graphic Design (Business and Marketing), Stagecraft