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Origin of All India for Education & Training : Globally Recognized Professional Institution

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✓ **Vocational Education and training (VET)** also called career and technical education (CTE) prepares learners for jobs that are based in manual or practical activities, traditionally non-academic and totally related to a specific trade and activities, occupation. An academic school generally teaches theoretical knowledge while a vocational school teaches hands on, applied skills such as carpentry auto mechanics, hairdressing, medicals technician and others. CTE Can be broad in range from finance, business, manufacturing, logistics, Construction, tourism ,Music, culinary arts, creative arts, Agriculture, Science & Technology, IT Hardware and others to accommodate CTE.

Vocational education refers to a skill based program that enables students to obtain knowledge, training and practical skills of a specific trade. Vocational Education. (CTE). A Few of them are engineering, information & technology, architecture and design, business and finance, health and social services, education and child development, hospitality & tourism and performing Arts. Technical and Vocational Education and Training (TVET) is the process of skill development of the work force in the industry of a country.

Vocational education helps bridge the gap between the Skills demanded by work for industries and the skills required for practical and hands on training concerned with specific trade or craft of 1-2 year program based on 10th pass.

Vocational Schools take a More hands-on-approach to teaching the skills needed to do the job Successfully which ensures both way, the Skills demanded by industries and the Skills Possessed by the work force.

Career and technical education

Career and technical education (CTE) is an educational approach to teaching technical skills that lead to careers for middle, high, and post secondary students. Compared to vocational education which is only taught in post secondary scenarios and is very specific to one career track, CTE can be broad in range from medical, business, sales, finance, IT, STEM, manufacturing, logistics, computer-based mathematics, political science, government, law, agriculture, construction, trades, craftsman, cosmetology, culinary, creative arts, music, to audiovisual technology.^[1] The Federal Government of the United States has invested \$1.462 billion in 2023^[2] and States have invested billions^[3] to renovate classrooms, spaces, and build dedicated buildings for the equipment, supplies, tools, software, and hardware to accommodate CTE.^{[4][5]}



Pittsboro Career and Technical Education Center

List of career and technical education skills

Trades

- Carpentry – woodworking, framing, doors/windows, drywall, insulation, flooring, siding, renovation, cabinetry, furniture.
- Cosmetology – Hair, Skin, Nails
- Plumbing – plumbing fixtures, piping and plumbing fitting, water heater, steamfitter, GreenPlumbers, and drain cleaner.
- Electrician – wiring, light fixture/major appliance, solar power installation, electronics technician, electric motor/generator technician, lineworker.
- Welding – MIG, TIG, stick, list of welding types, welding joints, welding symbols, and metalworking.
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- Mechanic – auto mechanic/restoration/scrapping, air conditioning, aircraft technician, boiler, millwright/industrial mechanic.
- Metal fabrication – machinist, lathes, milling, drilling, grinding, and CNC machining.^[6]
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- Culinary chef – baker, meat cutter/fishmonger, deli, cheesemonger, sushi itamae, and cook.
- Telecommunications technician – tower technician, directional boring, fiber-optic/coaxial, utility pole technician, satellite dish installer.
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- Energy Technologies (https://www.northeastcta.org/apps/pages/index.jsp?uREC_ID=539854&type=d&termREC_ID=&pREC_ID=1041434) – Electrician, Welder, Construction, solar installer, and engineer.

Computers

- Computer programming - languages, libraries, competitive programming, list of online IDEs, and source code editors.^[8]
- CAD/CAM/BIM – list of 3D modeling software, List of computer-aided manufacturing software, List of BIM software, CNC machining/3D printing/3D fabrication, and 3D rendering.^[9]
- Video editing – list of video editing software, filmmaking, visual effects, CGI, and List of 3D animation software.^[10]
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Business and finance

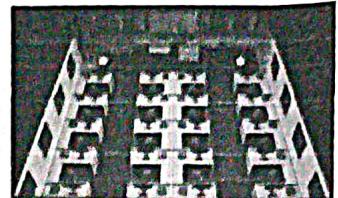
- **Accounting** – bookkeeping, financial statements, tax preparation, auditing, forensic accounting, payroll, accounts payable / receivable, CPA, comparison of accounting software.
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Law

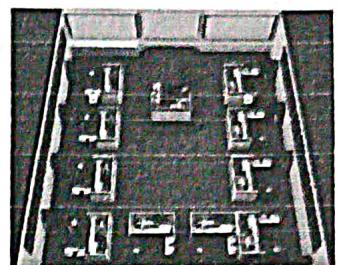
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- **Civil law** – contract law, tort law, property law, family law, labor law, consumer protection, personal injury.
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- **International law** – human rights law, international trade law, international humanitarian law, diplomatic law, law of the sea.
- **Family law** – divorce, child custody, adoption, domestic violence, spousal support, paternity.
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See also

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References

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3. "State by State Table – State of CTE" (<https://ctek12funding.careertech.org/state-by-state-table/>).
4. <https://www.mass.gov/news/healey-driscoll-administration-awards-17-million-for-career-and-technical-education-equipment-improvements>
5. "Lamar CISD breaks ground on career, technical education building" (<https://communityimpact.com/houston/katy-south-fulshear/education/2024/11/06/lamar-cisd-breaks-ground-on-career-technical-education-building/>).
6. "72 Trades To Learn for a Successful Trade Career | Indeed.com" (<https://www.indeed.com/career-advice/career-development/learn-trades>).
7. "Is Sewing a Trade? + Sewing Jobs & Titles" (<https://seamwhisperer.com/sewing-a-trade/>). 15 August 2022.
8. "Difference Between Programming, Scripting, and Markup Languages" (<https://www.geeksforgeeks.org/difference-between-programming-scripting-and-markup-languages/>). *GeeksforGeeks*. August 26, 2019.
9. "The Software Used by Architects and Builders" (<https://www.thoughtco.com/what-is-cad-or-bim-178399>). *ThoughtCo*.
10. "Video Editing Course for High School Students" (<https://www.agitraining.com/video-editing-courses-high-schools-students/video-editing-course-high-school>).
11. Johnson, Dave. "What is a CSV file? How to open and use the popular spreadsheet file" (<https://www.businessinsider.com/guides/tech/what-is-csv-file>). *Business Insider*.
12. Zardetto, Sharon (October 14, 2021). "Charts in Apple's Numbers Spreadsheet: Which One When?" (<https://tidbits.com/2021/10/14/charts-in-apples-numbers-spreadsheet-which-one-when/>). *TidBITS*.
13. "How to build a school studio space on a budget" (<https://www.musicteachermagazine.co.uk/features/article/how-to-build-a-school-studio-space-on-a-budget>). *Music Teacher*.
14. Science, Mayo Clinic College of Medicine and. "Curriculum - Magnetic Resonance Imaging (MRI) Program (Minnesota) - Mayo Clinic College of Medicine & Science" (<https://college.mayo.edu/academics/health-sciences-education/magnetic-resonance-imaging-mri-program-minnesota/curriculum/>). *Mayo Clinic College of Medicine and Science*.
15. "How to Become a Medical Laboratory Technician" (<https://www.wgu.edu/career-guide/healthcare/medical-lab-tech-career.html>). *Western Governors University*.

External links

- [Association for Career and Technical Education \(<https://www.careertech.org/>\)](#)

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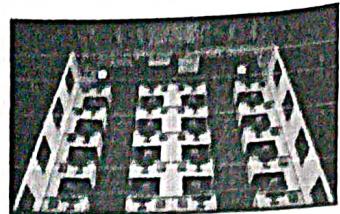
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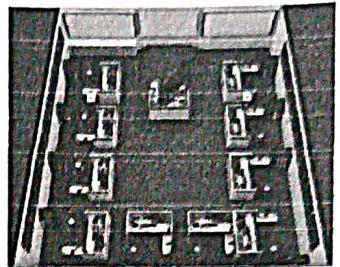
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10. "Video Editing Course for High School Students" (<https://www.agitraining.com/video-editing-courses-high-schools-students/video-editing-course-high-school>).
11. Johnson, Dave. "What is a CSV file? How to open and use the popular spreadsheet file" (<https://www.businessinsider.com/guides/tech/what-is-csv-file>). *Business Insider*.
12. Zardetto, Sharon (October 14, 2021). "Charts in Apple's Numbers Spreadsheet: Which One When?" (<https://tidbits.com/2021/10/14/charts-in-apples-numbers-spreadsheet-which-one-when/>). *TidBITS*.
13. "How to build a school studio space on a budget" (<https://www.musicteachermagazine.co.uk/features/article/how-to-build-a-school-studio-space-on-a-budget>). *Music Teacher*.
14. Science, Mayo Clinic College of Medicine and. "Curriculum - Magnetic Resonance Imaging (MRI) Program (Minnesota) - Mayo Clinic College of Medicine & Science" (<https://college.mayo.edu/academics/health-sciences-education/magnetic-resonance-imaging-mri-program-minnesota/curriculum/>). Mayo Clinic College of Medicine and Science.
15. "How to Become a Medical Laboratory Technician" (<https://www.wgu.edu/career-guide/healthcare/medical-lab-tech-career.html>). Western Governors University.

External links

- [Association for Career and Technical Education](#) (<https://www.careertech.org/>)