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VOCATIONAL QUALIFICATION

A Vocational qualification is a certificate diploma or degree earned by completing a course of study or training programs focused on a specific trade craft or profession.

These qualifications combining Theoretical knowledge with hand-on practical skills to prepare individuals for direct entry into a specific job or industry, such as health care, Construction, Culinary arts or automotive repair.

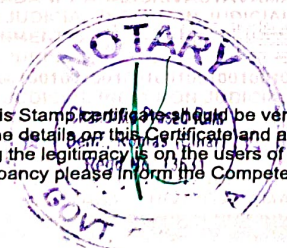
Vocational Qualification are job focused and provide a clear path to employment and carrier advancement often requiring less time to complete then traditional academic degrees.



IN 2502328597

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2. The onus of checking the legitimacy is on the users of the certificate.
3. In case of any discrepancy please inform the Competent Authority.





ESTD - AIBET 2008

RN : 111/2001-02 DACSSS BIHAR

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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]}



Pittsville 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.
- Masonry – concrete work, bricks/blocks/stones, troweling, and tiling.
- HVAC – heating, ventilation, air conditioning, and duct work.
- Painting – staining, wallpaper, paint mixing, plasterwork, and spackling paste.
- Roofing – shingles, standing seam metal roof, corrugated metal roof, solar roofs, rubber shingles, rain gutters.
- Mechanic – auto mechanic/restoration/scrappping, air conditioning, aircraft technician, boiler, millwright/industrial mechanic.
- Metal fabrication – machinist, lathes, milling, drilling, grinding, and CNC machining.^[6]
- Sewing – machine sewing, hand stitching, embroidery, tailor, quilting, fashion design, costume design, 3D clothes modeling, upholstery, knitting, tapestry, crochet.^[7]
- 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.
- Automation technician – PLCs, instrumentation calibration, assembly/production line, industrial installation and maintenance.
- Semiconductor technician
- Aviation – flight training, list of flight simulators, air traffic control, fixed-wing, rotary-wing, UAV, 107 pilots license.
- 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]
- Digital art – 2D graphics software, animation software, graphics tablets, styluses, List of digital art software, digital sculpting.
- Digital photography/Videography – digital camera, aerial photography, digital photo editing software, list of video editing software.
- Information technology (IT)
- Spreadsheets – CSV (file format),^[11] graphs, charts, bookkeeping, list of spreadsheet software,^[12] List of relational database management systems.
- Digital media – radio/podcast, YouTuber, video production, visual effects/sound effects/sound design, digital audio editors, studio.
- Music studio – digital audio workstation, audio engineering, list of music software, electronic drum set, electronic keyboard, electric guitar, drum machine, digital music technology.^[13]

Healthcare

- Medical imaging – Xray, CT scan, MRIs,^[14] ECGs, nuclear medicine, and ultrasound.
- Medical laboratory tests^[15]
- Health informatics
- Nursing
- Surgical stitches
- Biomedical sciences
- Biomedical equipment technician
- Emergency medical services – emergency medical technician (EMT), paramedic, first responder.
- Dental hygienist

Computational science

- **Biotechnology** - list of open-source bioinformatics software, computational genomics, pharmaceutical sciences.
- **Computational biology** - biosimulation, list of genetic engineering software, List of protein structure prediction software.
- **Computational chemistry** - software for molecular mechanics modeling, nucleic acid simulation, molecular design software.
- **Computational physics** - quantum chemistry and solid-state physics software, astrophysics software, Open Source Physics.
- **Geoinformatics** - GIS software, surveying, remote sensing, photogrammetry, geovisualization, technical geography, geostatistics.
- **Electronics** - comparison of EDA software and free simulators, avionics, robotics, OpenRISC, sensors, silicon devices.
- **Aerospace** - aeronautics, astronautics, space flight simulation games, list of flight simulator video games, aircraft design process.
- **Computational materials science** - materials informatics, computational thermodynamics, molecular dynamics, molecule editing software, molecular mechanics modeling software, list of software for nanostructures modeling, finite element analysis software.

Computational engineering

- **Biomedical engineering** – biomechanics, genetic engineering, pharmaceutical, medical imaging, bioinstrumentation, tissue.
- **Materials engineering** – chemical, petroleum, biochemical, thermochemistry, chemical process simulators, nanoengineering.
- **Biological engineering** – synthetic biology, biological systems, biotechnology, agricultural, computational genomics, bioinformatics.
- **Construction engineering** – civil engineering, structural, transportation, surveying, architectural, construction estimating software.
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- **Artificial intelligence engineering** – machine learning, computer vision, list of artificial intelligence projects, comparison of deep learning software.

Computer-based mathematics

- **Computer algebra** - computer algebra systems, list of computer algebra systems, free computer algebra software.
- **Computational geometry** - list of interactive geometry software, list of information graphics software, free plotting software.
- **Computational statistics** - list of statistical software, comparison of statistical packages, data mining software, analytics.
- **Data science** - list of numerical-analysis software, machine learning software, list of open-source data science software.
- **Computational science** - computational physics, chemistry, biomathematics, economics, list of computer simulation software.
- **Mathematical programming** - linear, nonlinear, integer, linear algebra libraries, list of numerical libraries and languages.
- **Numerical analysis** - list of optimization software, list of numerical-analysis software, comparison of numerical-analysis software.
- **Engineering mathematics** - computational engineering, Mathcad, list of computer-aided engineering software.
- **Mathematical notation software** - Comparison of TeX editors, TeX, LaTeX, KaTeX, AsciiMath, GNU TeXmacs, MathJax, MathML.
- **Algorithms** - list of algorithms, algorithm design, analysis of algorithms, algorithm engineering, list of data structures.
- **Cryptography** - cryptography algorithms, comparison of cryptography libraries.
- **Mathematical art** - mathematical visualizations, fractal art, parametric surfaces, algorithmic art, platonic solids, simulations, procedural generation, ray tracing, List of mathematical art software.

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

- **Criminal law** – criminal defense, prosecution, defamation, homicide, assault, theft, drug offenses, sentencing.
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- **Computational law** – legal informatics, automated reasoning, smart contracts, legal expert systems, regulatory technology, jurimetrics.
- **Legal writing** – legal research, legal briefs, memoranda, judicial opinions, legal citation, persuasive writing, legal drafting, contracts, legal analysis, court reporter, Will and testament.

✓ UGC GUIDELINES FOR B.Voc.

A suggestive list of vocational sectors and related specializations is given below; Universities and colleges may like to identify additional sectors/specializations in view of the potential for employment in the local industries and meet the standards laid down by National Occupational Standards.

No.	Sector	Specialization
1.	Automobiles	1. Engine Testing
		2. Vehicle Testing
		3. Vehicle Quality
		4. Auto Electricals and Electronics
		5. Farm Equipment and Machinery
2.	Entertainment	1. Theatre and Stage Craft
		2. Contemporary Western Dance
		3. Theatre studies
		4. Acting
3.	Information Technology	1. Software Development
4.	Telecommunications	1. Mobile Communication
5.	Marketing	1. Retail
6.	Agriculture	1. Farm Machinery and Power Engineering
		2. Green House Technology
		3. Renewable Energy
		4. Processing and Food Engineering
		5. Soil and Water Conservation
7.	Construction	1. Building Technology
8.	Applied Arts	1. Fashion Technology
		2. Interior Design
		3. Jewellery Design
9.	Tourism	1. Tourism and Service Industry
10.	Printing and Publishing	1. Printing Technology



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