



M.S.Prakash Panicker
(Founder)

When You Know Better You Do Better

BLUETRONIX

College of Engineering & Private ITI

Imparting Quality Education Since 1968

**Your
Engineering Career
Starts Here**

Trust the magic Of New beginning

📍 Vadakkumthodam Lane, ESI Road, Palluruthy, Kochi -682006 Ernakulam

☎ 0484-2231926, 9746835055, 6238607424

✉ bluetronix7@gmail.com

🌐 www.bluetronixiti.com



Skill India
कौशल भारत - कुशल भारत

GOVT: OF INDIA
NCVET - ITI - TRADES



Industrial Training Institute

AFFILIATED, APPROVED & RECOGNIZED BY
CENTRAL & STATE GOVERNMENTS
NCVET- DGT MINISTRY OF SKILL DEVELOPMENT & ENTERPRENEURSHIP

GOVERNMENT OF INDIA

THE HIGHER EDUCATION DEPARTMENT (TECHNICAL)
DIRECTORATE OF TECHNICAL EDUCATION

GOVERNMENT OF KERALA

MECHANIC (DIESEL) (ITI), DRAUGHTSMAN (CIVIL) (ITI), ELECTRICIAN (ITI),
REFRIGERATION & AIR - CONDITIONING TECHNICIAN (ITI), FITTER (ITI)

SHORT TERM CERTIFICATE COURSES

AUTOMOBILE ENGG: CIVIL ENGG:, ELECTRICAL ENGG:
REFRIGERATION & AIRCONDITIONING, WELDING,
ELECTRONICS, PLUMBER

BLUETRONIX

COLLEGE OF ENGINEERING & PRIVATE ITI
ESI ROAD, PALLURUTHY KOCHI-6 ERNAKULAM

Ph: 0484-2231926, 9746835055, 6238607424, www.bluetronixiti.com

S.B.

COLLEGE OF ENGINEERING & PRIVATE ITI
COURT JN: CHERTHALA, ALAPPUZHA

0478-2812215, 9287273329, 9847643211, 8281073295 www.sbitcherthala.com



MANAGING DIRECTOR & PROPRIETRIX
Mrs. USHA.P.PANICKER



Thou Truth Wisdom & Happiness

BLUETRONIX



APPROVED RECOGNIZED & AFFILIATED BY

NCVET- DGT Ministry of Skill Development & Entrepreneurship

Government of India,

Directorate of Technical Education Government of Kerala.

Indian Technical Education Mumbai

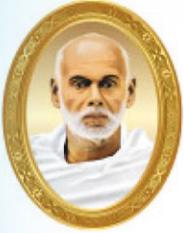
1. C2/18493/87(19) Dated 3/10/1987/TVM Letter No. DGE&T-6(9)/85-TC Dated 03/01/1986
2. C4/23465/2001 Dated 17/01/2002/TVM Letter No. DGE & T 12/1/2001 - TC Dated 14/12/2001
3. DGE&T -KL 3634/
4. NCVT MIS CODE : PU32000240
5. ITES Affiliation order No. ITES/106/75/4/9/75 - KRL/263

NCVET ITI TRADES

- * Refrigeration & Air conditioning Technician
- * Electrician
- * Fitter
- * Draughtsman (Civil)
- * Mechanic (Diesel)

ITES (DIPLOMA & CERTIFICATE COURSES)

- * Automobile Engineering
- * Mechanical Engineering
- * Civil Engineering
- * Electrical Engineering
- * Refrigeration & Airconditioning
- * Welding Technology



“നീ സത്യം ജ്ഞാനമാനന്ദം”



വ്യവസായവൽക്കരണത്തിന്റെയും വിവരസാങ്കേതികമേഖലയുടെയും ഈ യുഗത്തിൽ, സാങ്കേതിക പരിശീലനത്തിൽക്കൂടി മാത്രമേ മാന്യമായ ഒരു ജോലി സമ്പാദിക്കുവാനോ, സ്വയംതൊഴിൽ കണ്ടെത്തുവാനോ കഴിയുകയുള്ളൂ.

അറ്റ് പതിറ്റാണ്ടുകൾക്കുമുമ്പ് പശ്ചിമ കൊച്ചിയിൽ പ്രവർത്തനം ആരംഭിച്ച 'ബ്ലൂട്രോണിക്സ്', സാങ്കേതിക വിദ്യാഭ്യാസ സ്ഥാപനങ്ങൾക്ക് സർക്കാർ വർഷങ്ങളായി നിർത്തിവെച്ചിരുന്ന അംഗീകാരം കൊടുക്കൽ G.O.No. C5/45254/77/KDIS. TVM dt. 28/02/1978 എന്ന ഓർഡർപ്രകാരം പുന:സ്ഥാപിച്ചുകൊണ്ടും, ദ്വിവത്സര എഞ്ചിനീയറിംഗ് കോഴ്സുകൾക്ക് സ്ഥിരമായ അംഗീകാരം നേടിക്കൊണ്ടും കേരളക്കരയിലാകമാനം ഒരു സാങ്കേതിക വിദ്യാഭ്യാസ വിപ്ലവത്തിന് നാനദിനിച്ചിട്ട് 'ബ്ലൂട്രോണിക്സ്' ആണെന്നുള്ള പരമാർത്ഥം ഇന്ന് പലരും മറന്നിരിക്കാം. തുടർന്ന് അതേ വർഷംതന്നെ കേന്ദ്രസർക്കാരിന്റെ വ്യാവസായിക പരിശീലനവകുപ്പ് നടത്തുന്ന ഐ.റ്റി.ഐ. ട്രേഡുകൾക്കും 'ബ്ലൂട്രോണിക്സ്' അംഗീകാരം നേടി; അതും വർഷങ്ങൾക്കുശേഷം ആദ്യമായിത്തന്നെ! ബ്ലൂട്രോണിക്സിനുമാത്രം അഭിമാനിക്കാവുന്ന നേട്ടങ്ങളാണിവ; അന്നും.....ഇന്നും.!

പള്ളുരുത്തിയിലുള്ള ബ്ലൂട്രോണിക്സ് ഐ.റ്റി.ഐ.യിലും ചേർത്തലയിലെ S.B. I.T.I. യിലും പരിശീലനം പൂർത്തിയാക്കിയ 99% ട്രെയിനികളും സ്വരാജ്യത്തും വിദേശങ്ങളിലും ഉയർന്ന ശമ്പളത്തോടുകൂടി അന്തസുള്ള ജോലി നോക്കുന്നു എന്നുള്ളതിൽ ഞങ്ങൾക്ക് അഭിമാനമുണ്ട്.

ഗവ: കോഴ്സുകളുടെ വിജയശതമാനത്തിൽ ഞങ്ങളുടെ വിദ്യാഭ്യാസസ്ഥാപനങ്ങൾ മുൻപന്തിയിൽ തന്നെയാണ്. പല വർഷങ്ങളിലും പല കോഴ്സുകൾക്കും 100% വിജയം കൈവരിച്ചുകൊണ്ടിരിക്കുന്നു. ശ്രീനാരായണഗുരുസ്വാമി തൃപ്പാദങ്ങളുടെ അനുഗ്രഹം എന്നും എപ്പോഴും എനിക്കും എന്റെ സ്ഥാപനങ്ങൾക്കും തുണയായി നിൽക്കുന്നു.

ജാതിമത രാഷ്ട്രീയ ചിന്തകൾക്കതീതമായ് എല്ലാ മനുഷ്യരേയും ഒന്നായ് കാണുവാനും എല്ലാവരേയും സ്നേഹിക്കുവാനും, അവരുടെ ദുഃഖങ്ങളിൽ പങ്കുചേരുവാനും ഉപദേശം നൽകിയ പരമനായ എന്റെ അച്ഛൻ ശ്രീ. പി. വി. സുകുമാരപ്പണിക്കരുടെയും അമ്മ ശ്രീമതി ശാരദസുകുമാരപ്പണിക്കരുടേയും വല്ലച്ഛൻ ശ്രീ. പി.വി. രാഘവപ്പണിക്കരുടേയും ബഹു. മുൻ ചീഫ് ജസ്റ്റിസ് ശ്രീ. റ്റി.സി. രാഘവന്റെയും ബഹു. മുൻമന്ത്രി ശ്രീ. എം.കെ.രാഘവൻ വക്കീലിന്റേയും നാമധേയങ്ങളിൽ എല്ലാ വർഷവും ഗവ. കോഴ്സുകളിൽ അഞ്ചുസീറ്റുകളിൽ സാമ്പത്തികമായി പിന്നോക്കം നിൽക്കുന്ന വിദ്യാർത്ഥികളെ ജാതി, മത, രാഷ്ട്രീയ ദേശമന്വേ ഫീസ് ഇളവ് നൽകി പഠിപ്പിച്ചുവരുന്നു. വർഷങ്ങളായി ഇതു തുടർന്നുകൊണ്ടിരിക്കുന്നു.

ജാതികളുടേയും, മതങ്ങളുടേയും, ദൈവങ്ങളുടേയും പേരിൽ തമ്മിൽ കലഹിക്കാതിരിക്കുക. മതങ്ങളും ദൈവങ്ങളും മാനവനന്മയ്ക്കുള്ളതാകട്ടെ. പരസ്പരം സ്നേഹിച്ചും സഹകരിച്ചും സഹായിച്ചും അവരവർക്ക് അനുവദിച്ചുകിട്ടിയിട്ടുള്ള കാലഘട്ടങ്ങൾ കഴിഞ്ഞും ഭംഗിയായി തരണംചെയ്യുക. ഈ മണ്ണിൽ ജന്മമെടുത്ത നമ്മൾ ഹിന്ദുവായാലും ക്രിസ്ത്യാനിയായാലും മുസ്ലീമായാലും ഈ മണ്ണിൽത്തന്നെ ജന്മം അവസാനിപ്പിച്ച് മടങ്ങേണ്ടവരാണെന്നുള്ള സത്യം മറക്കാതിരിക്കുക. മരണശേഷവും സ്മരിക്കപ്പെടുവാൻ നന്മയുടെ വിത്തുവിതയ്ക്കുക. നീതിമാന്റെ മക്കൾക്ക് അപ്പം ഇരക്കേണ്ടിവരികയില്ല എന്നുള്ള കർത്താവിന്റെ വചനങ്ങളും 'മതമേതായാലും മനുഷ്യൻ നന്നായാൽ മതി' എന്ന ഗുരുദേവ സൂക്തങ്ങളും, "ചെറിയവരോട് കരുണകാണിക്കാത്തവരും, വലിയവരെ ബഹുമാനിക്കാത്തവരും നന്മകൽപ്പിക്കാത്തവരും തിന്മ തടയാത്തവരും നമ്മിൽപ്പെട്ടവരല്ല" - എന്ന നബിവചനങ്ങളും ഓർമ്മിക്കുക.

സ്നേഹപൂർവ്വം,

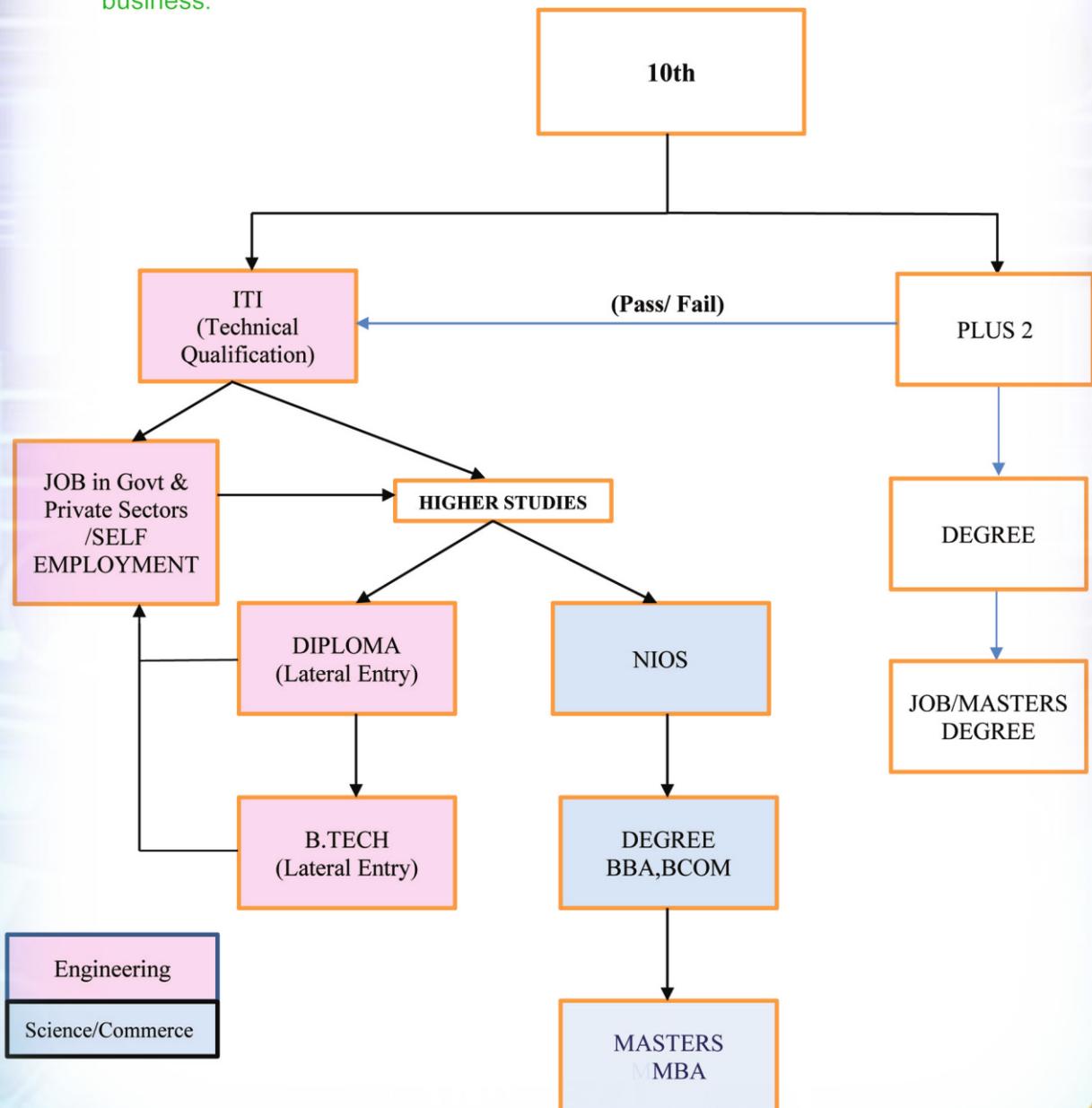


M.S. Prakash Panicker
(Founder / Managing Director)

After 10th WHY ITI

NATIONAL TRADE CERTIFICATE IS RECOGNIZED WORLDWIDE

- Employment Opportunities
- Trained and skilled youth
- Straight away Job Opportunities in Government Sectors like railways, Army, Airforce, PWD, Irrigation, ISRO etc.
- Abroad Opportunities
- ITI graduates have specialized knowledge and practical Training which makes them sought after employers
- ITI graduates can use their technical skills and expertise to start their own business.



OBJECTIVES OF CRAFTSMAN TRAINING SCHEME

- To provide semi-skilled/skilled workers to industry by systematic training to school leavers.
- To reduce unemployment among educated youth by equipping them with suitable skills for Industrial employment.
- All India Trade Test are conducted by the DGE&T, Ministry of Labour, under the aegis of the National Council for Vocational Training in July and January every year for various examinations.
- The trainees of affiliated Institutes/ trades and eligible private candidates appear in the trade tests. National Trade Certificates are awarded to the successful candidates.
- National Trade Certificate is a recognized qualification for recruitment to relevant posts and services in Central/ State Government establishments.

CTS

The Craftsmen Training Scheme (CTS) was introduced by the Government of India in year 1950 to ensure a steady flow of skilled workers in different trades for the domestic industry, to raise quantitatively and qualitatively the industrial production by systematic training, to reduce unemployment among the educated youth by providing them employable skills, to cultivate and nurture a technical and industrial attitude in the minds of younger generation. The Scheme is the most important in the field of Vocational Training, has been shaping craftsmen to meet the existing as well as future manpower need, through the vast network of ITI is spread over various States / Union Territories in the country. The day-to-day administration of ITIs under the Craftsmen Training Scheme was transferred to the State Governments/ Union Territory administrations with effect from the year 1956. From 1st April 1969, the financial control of the Industrial Training Institutes in the States as well as in the Union Territories was transferred to the respective State Governments/ Union Territory. The financial assistance was granted to them in the form of bulk grant in consultation with the erstwhile Planning Commission and the Ministry of Finance.

Vocational Training is a concurrent subject of both Central and State Governments. The development of training schemes at National level, the evolution of policy, laying of training standard, norms, conducting of examinations, certification, etc. are the responsibilities of the central government, whereas, day to day administration including an admission in ITIs rests with the respective State Governments/ UTs.

Presently, training courses under the Craftsmen Training Scheme are being offered through a network of 14955 ITIs (Govt. 3248 + Private 11707) located all over the country with total trainees enrolled 22.82 lakhs (in the trades of 1 year and 2 year durations) on NCVT MIS portal with an objective to provide skilled workforce to the industry in 150 NSQF compliant trades.

NCVET

National Council for Vocational Education and Training

The National Council for Vocational Education and Training (NCVET) was established by the Ministry of Skill Development and Entrepreneurship (MSDE), Government of India, vide Gazette Notification No. SD-17/113/2017-E&PW dated 5th December 2018, as a regulatory body, by subsuming the functions and responsibilities of erstwhile National Skill Development Agency (NSDA) and National Council for Vocational Training (NCVT). The NCVET became fully operational on 1st August 2020. It functions as an overarching national regulator for setting standards and formulating comprehensive regulations for the vocational education, training, and skilling ecosystem for improving quality and outcomes. It has been entrusted with the development, qualitative improvement and regulation of vocational education entities involved in both long and short-term vocational education and training, while also establishing minimum standards for their operations. The NCVET thus strives to integrate fragmented regulatory system and infuse quality assurance across the entire vocational education, training and skilling value chain, leading to the availability of higher-level skilled manpower for better employability and accelerated growth of the Indian economy

The National Council for Vocational Training, an advisory body, Has Been Founded by the Government of India in 1956. The Council was entrusted with the duties of prescribing criteria and curriculum for trainee coaching, advising the Government of India to the total plan and programs, conducting All India Trade Tests and awarding National Trade Certificate

NCVT MIS

This portal site is a one-stop information resource for many Institutes and classes under the purview of the National Council of Vocational Training (NCVT).

The hyperlinks inside the boxes below could also be utilized for now accessible options of this portal site.

<https://ncvtmis.gov.in/pages/home.aspx>
<https://ncvtmis.gov.in/Pages/ITI/Search.aspx>

A certificate is an important document that its validity must be ascertained. Fraud over the originality of this document demands a high level of security to ensure that this document is genuine. The QR Code on the certificate can be scanned using a smartphone or any other phone with scanning capability. The code will be translated using the QR Code and matched to the data contained in the server system. The system will confirm whether the certificate is original or not.

Criteria of Admissions to Industrial Training Institutes

- Age: The minimum age limit for ITI admission is 14 years.
The authority has not mentioned any upper age limit for admission into various engineering and non engineering trades.
- Qualification: Candidates must have passed Class 10 .
- Scholarships: The prime Ministers new 15 Point program for the Welfare of minorities was announced in June 20006, It provides that a post-matric scholarship scheme for meritorious students from minority communities would be implemented.
- Scholarship will be awarded to the students who have secured not less than 50% marks or equivalent grade in the previous final examination and the annual income of whose parents /guardians from all sources does not exceed Rs 2.00 lakh
- Start of Session: Academic session in ITIs starts from August of every year.

Government of India

MINISTRY OF SKILL DEVELOPMENT AND ENTREPRENEURSHIP
DIRECTORATE GENERAL OF EMPLOYMENT & TRAINING
SHARAM SHAKTI BHAVAN, RAFI MARG
NEW DELHI – 110001



Directorate General of Training



For Attention of Admission Seekers to National Council for Vocational Education & Training (NCVET) Approved Trades in the Government and Private Industrial Training Institutes

All admission seekers to trade (Engineering/Non Engineering) affiliated with NCVET in the Govt. and Private Industrial Training Institutes (ITIs) are informed that, the student of trades/units which are affiliated on the date of admission are only eligible for appearing in All India Trade (AITT) for the award of National Trade Certificate.

No Admission is allowed in NCVET Trades without affiliation

The list of affiliated trades/units are available with respective institutes in the website of DGE&T (www.dget.nic.in), (<https://ncvtmis.gov.in/Pages/ITI/Search.aspx>) website of respective State directorates

(www.det.kerala.gov.in)

It is also informed in the interest of general public that NCVET/Govt. of India do not recognize any Govt. and private Industrial Training Institute (ITI) NCVT affiliates only the trades and its units run by a particular ITI.

DIRECTOR OF TRAINING
Secretary NCVET



REFRIGERATION & AIR CONDITIONING TECHNICIAN

ITI

NCVET • GOVERNMENT OF INDIA

NATIONAL TRADE CERTIFICATE COURSE

ALL INDIA TRADE TEST(AITT) CONDUCTED & CERTIFICATE ISSUED BY DGT -
MINISTRY OF LABOUR & EMPLOYMENT -GOVERNMENT OF INDIA

2 YEAR- SSLC PASS - BOYS & GIRLS NO AGE LIMIT

By completing the course a RAC Technician will able to : installs and repairs refrigeration or air conditioning plant by replacing or repairing defective parts, re-seating valves, refitting coils, insulating, requiring electrical connections, soldering etc. Installs at site assembled air conditioning unit and refrigerators giving necessary power connections and making changes to units as necessary to attain desired results. Examines faulty equipment to ascertain nature and location of defects. Dismantles equipment partly or completely according to nature of defects to remove damaged or worn out parts. Replaces or repairs defective parts. Replaces or repairs defective parts to units by re-seating valves, refitting coils, re-insulating system, etc. over hauls units and reassembles them after cleaning components and replacing defective or worn out parts of pumps, compressors, motors, etc., Removes faulty sealed units or sub-units of refrigerators or air conditioning plants and obtains replacements. Conducts vacuum and pressure test of pipe lines and charges system with fresh refrigerant. Sets plant to desired cooling conditions, prevents leakage and ensures attainment and maintenance of required temperature. Gets burnt out motors or generators repaired by Electrician or Electrical Winder and installs repaired ones to plant giving necessary electrical connections. May work in ice factory, cold storage plants, specialized air conditioning units or domestic refrigerators. Repair and service in refrigerator, water cooler, bottle cooler, deep freezer, Visi Cooler, Walk in Cooler, Ice candy plant, Cold storage, Ice plant, Split Air Conditioner, Package Air Conditioner, Central Air Conditioner, mobile Air Conditioner. Plan and organize assigned work and detect & resolve issues during execution in his own work area within defined limit. Demonstrate possible solutions and agree tasks within the team. Communicate with required clarity and understand technical English. Sensitive to environment, self-learning and productivity.

One of the best ITI of Kerala state with maximum practical facilities, in the field since 1968 onwards. visit bluetronix and see yourself the practical tools and equipment and then decide where to join. we will give you 100% practical training in the field of air conditioning and refrigeration mechanism which no other institute can give.

Job opportunities all over the world.

"WHERE EVER YOU GO- TELL- THAT YOU ARE A BLUETRONIX PRODUCT • AND FEEL THE CHANGE OF GRAVITY IN YOUR PERSONALITY."

Refrigeration and Air Conditioning Technician trade under CTS is one of the most popular courses delivered nationwide through a network of ITIs. The course is of two years duration. It mainly consists of Domain area and Core area. The Domain area (Trade Theory & Practical) imparts professional skills and knowledge, while Core area (Employability Skills) imparts requisite core skill & knowledge and life skills. After passing out of the training program, the trainee is awarded National Trade Certificate (NTC) by DGT which is recognized worldwide.

CURRICULUM STRUCTURE

Year 1	Year 2
Module 1 Fitting	Module 1 Commercial Compressor
Module 2 Sheet Metal	Module 2 Water cooled Condenser with Cooling Tower
Module 3 Electrical	Module 3 Expansion valve
Module 4 Electronics	Module 4 Evaporator & Chillers
Module 5 Welding	Module 5 Cooler & Freezer
Module 6 Basic refrigeration	Module 6 Applications of Commercial Refrigeration: Ice Cube machine, ice Candy Plant, ice plant, Cold storage
Module 7 Refrigerator direct Cool	Module 7 HVAC Systems
Module 8 Frost Free refrigerator	Module 8 Central Industrial Air Conditioning
Module 9 Refrigerator inverter Technology	Module 9 Mobile Air Conditioning
Module 10 Compressor & Motor	Module 10 Study Execute Commercial Plant
Module 11 Condenser	
Module 12 Drier & Expansion Valve	
Module 13 Evaporator	
Module 14 Refrigerant	
Module 15 Thermal insulation	
Module 16 Window Air Conditioner	
Module 17 Split AC	

After completing an ITI in Refrigeration and Air Conditioning, you can work in a variety of settings, including residential homes, offices, and factories. You can also pursue further education or start your own business.

Job opportunities

- Work in retail, repair shops, offices, manufacturing plants, and industries
- Work as a technician, installer, cooling and refrigeration mechanic, retail manager, or maintenance engineer
- Work in design consultancy or teaching
- Start your own business as a freelancer or entrepreneur

Further education

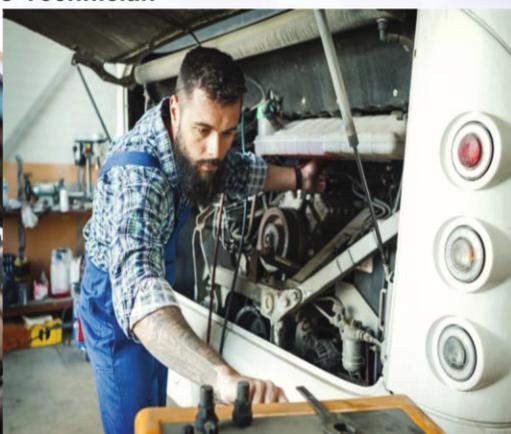
- Apply for apprenticeships
- **Polytechnic Diploma:** Take admission to a Diploma course in engineering through lateral entry which will take only 2 years to complete.
- **Bachelor Degree in Engineering:** Take Admission to B.Tech course through lateral entry after completing Diploma which will take only 3 years to complete.

POSSIBLE CAREERS

Authorized company Service Technicians



Automobile AC Technician



Food processing plant Technician

Cold storage Technician



Chiller Technician

Marine AC Technician



Centralized AC Technician

Commercial HVAC Technician





ELECTRICIAN



NCVET - GOVERNMENT OF INDIA

NATIONAL TRADE CERTIFICATE COURSE

2 YEAR - SSLC PASS - BOYS & GIRLS NO AGE LIMIT

By completing the course an Electrician will able to: installs, maintains and repairs electrical machinery equipment and fittings in factories, workshops powerhouse, business and residential premises etc. Studies drawings and other specifications to determine electrical circuit, installation details etc. Positions and installs electrical motors, transformers, switchgears. Switch boards and other electrical equipment, fittings and lighting fixtures. Makes connections and solders terminals. Tests electrical installations and equipment and locates faults using megger, test lamps etc. Repairs or replaces defective wiring, burnt out fuses and defective parts and keeps fittings and fixtures in working order. May do armature winding, draw wires and cables and do simple cable jointing. May operate, attend and maintain electrical motors, pumps etc. Fits and assembles electrical machinery and equipment such as motors, transformers, generators, switchgears, fans etc., Studies drawings and wiring diagrams of fittings, wiring and assemblies to be made. Collects prefabricated electrical and mechanical components according to drawing and wiring diagrams and checks them with gauges, megger etc. to ensure proper function and accuracy. Fits mechanical components, resistance, insulators, etc., as per specifications, doing supplementary tooling where necessary. Follows wiring diagrams, makes electrical connections and solders points as specified. Checks for continuity, resistance, circuit shorting, leakage, earthing, etc. at each stage of assembly using megger, ammeter, voltmeter and other appliances and ensures stipulated performance of both mechanical and electrical components filled in assembly. Erects various equipment such as bus bars, panel boards, electrical posts, fuse boxes switch gears, meters, relays etc. using non conductors, insulation hoisting equipment as necessary for receipt and distribution of electrical current to feeder lines. Installs motors, generators, transformer etc. as per drawings using lifting and hoisting equipment as necessary, does prescribed electrical wiring, and connects to supply line. Locates faults in case of breakdown and replaces blown out fuse, burnt coils, switches, conductors etc. as required. Checks, dismantles, repairs and overhauls electrical units periodically or as required according to scheduled procedure. May test coils. May specialize in repairs of particular equipment manufacturing, installation or powerhouse work and be designated accordingly.

Electrician trade under CTS is one of the most popular courses delivered nationwide through network of ITIs. The course is of two years duration. It mainly consists of Domain area and Core area. The Domain area (Trade Theory & Practical) impart professional skills and knowledge, while Core area (Employability Skills, Workshop calculation & science & Engineering Drawing) impart requisite core skill, knowledge and life skills. After passing out of the training programme, the trainee is awarded National Trade Certificate (NTC) by DGT which is recognized worldwide.

CURRICULUM STRUCTURE

Year 1	Year 2
Module 1 Safety practice & Hand tools	Module 1 DC Generator
Module 2 Wires, joints – Soldering – U G cables	Module 2 Dc Motor
Module 3 Basic Electrical practice	Module 3 AC Three phase motor
Module 4 Magnetism & Capacitors	Module 4 AC Single Phase Motor
Module 5 AC Circuits	Module 5 Alternator
Module 6 Cells & Batteries	Module 6 Synchronous Motor And MG Set
Module 7 Basic Wiring Practice	Module 7 Electronic Practice
Module 8 Wiring installation & Earthing	Module 8 Control panel Wiring
Module 9 Illumination	Module 9 AC / DC Motor Drives
Module 10 Measuring Instruments	Module 10 Inverter & UPS
Module 11 Domestic Appliances	Module 11 Power Generation & Substation
Module 12 Transformers	Module 12 Transmission & Distribution
	Module 13 Circuit Breakers & Relays
	Module 14 Electric Vehicle



After completing an ITI Electrician course, you can work as an Electrician in a variety of industries, including construction, manufacturing, and maintenance. You can also pursue further education, such as a diploma & engineering degree.

NATIONAL CERTIFICATE HOLDERS CAN APPLY FOR WIREMAN LICENSE THROUGH THE GOVERNMENT PORTAL: <https://samraksha.ceikerala.gov.in>

Job Roles

Electrical Machine Operator, Electrical Technician, Maintenance Electrician, Field Service Electrician, Electrical Supervisor, electrical Sales Engineer

Career Prospects

- Electricians are in high demand in the job Market.
- Electricians can work in construction or maintenance
- Electricians who specialize in construction install wiring systems in factories, businesses and new Homes
- Electricians inspect, test, repair, Install & Change electrical Systems & Circuits.

Further education

- **Polytechnic Diploma**

After the two years of ITI course, you can be eligible for admission to second year diploma course through lateral entry, which will take only two years to complete

- **Engineering degree**

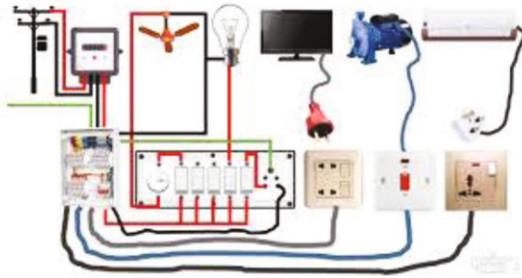
After completing the diploma course, you can pursue a Degree course through lateral entry which will take only 3 years to complete.

Other courses

- Fire Alarm Course
- CCTV Course
- Fire and Safety Course
- BMS Training (Building management System)
- Solar Power Course
- Mobile Phone Servicing Course

POSSIBLE CAREERS

Residential Wiring Electrician



Industrial or Commercial Electricians



Constructional Electricians



Maintenance Electricians



Electrical power substation



Renewable Energy Technician





MECHANIC (DIESEL)



NCVET - GOVERNMENT OF INDIA

NATIONAL TRADE CERTIFICATE COURSE

1 YEAR - SSLC PASS - BOYS & GIRLS NO AGE LIMIT

By completing the course, a Mechanic will able to: repair, service and overhaul diesel or oil engines for efficient performance as prime mover to drive machinery and equipment. Examine engine to locate defects, using various tools and instruments. Dismantles or partly dismantles it to remove damaged or worn out parts and replaces or repairs them. Grinds valve and assembles parts, doing supplementary tooling and other functions as necessary to ensure accuracy of fit. Installs assembled or repaired engine in position and connects pulley or wheel to propulsion system. Starts engine, tunes it up and observes performance noting different meter readings such as temperature, fuel level, oil pressure, etc. and sets it to specified standard for optimum performance. Checks, adjusts and lubricates engine periodically and performs such other functions to keep engine in good working order. May solder or braze parts and service diesel fuel pumps and injectors. Additionally, since diesel engines are starting to incorporate electronic components, programs usually give students a chance to take courses in electrical systems and computer diagnostic software. Plan and organize assigned work and detect & resolve issues during execution in his own work area within defined limit. Demonstrate possible solutions and agree tasks within the team. Communicate with required clarity and understand technical English. Sensitive to environment, self-learning and productivity.

During the one-year duration of Mechanic Diesel trade a candidate is trained on professional skills & knowledge, and Employability skill related to job role. In addition to this a candidate is entrusted to undertake project work and extracurricular activities to build up confidence. Identification of tools & equipment, raw materials used. The trainee will perform Measuring & marking by using various Measuring & Marking tools. The trainee will be able to plan and perform basic fastening and fitting operations. Familiarize with basics of electricity, test and measure the electrical parameter. Skilling practice on maintenance of batteries being done. Trace and identify various hydraulics and pneumatics components and identify components in Air and Hydraulic Brake system. Identify various types of vehicle. The candidate will be able to perform practice on dismantling Diesel Engine of LMV as per given standard procedures. Able to achieve skill on Overhauling of Cylinder Head , valve train , Piston, connecting rod assembly, crankshaft, flywheel and mounting flanges, spigot and bearings, camshaft etc. practice reassembling all parts of engine in correct sequence as per workshop manual. Perform testing on engine. Also the trainee practice on repair and maintenance of Cooling, lubrication, Intake & Exhaust system of Engine. Perform maintenance of diesel fuel system, FIP, Governor and monitor emission of vehicle. Practice on repair, maintenance and overhaul of Starter, alternator and perform Execute troubleshooting in engine of LMV/HMV.

Mechanic Diesel trade under CTS is one of the popular courses delivered nationwide through a network of ITIs. The course is of one-year duration. It mainly consists of Domain area and Core area. The Domain area (Trade Theory & Practical) imparts professional skills and knowledge, while Core area (Employability Skills) imparts requisite core skill, knowledge and life skills. After passing out of the training program, the trainee is awarded National Trade Certificate (NTC) by DGT which is recognized worldwide.

CURRICULUM STRUCTURE

Year 1

Module 1

Safety Workshop practices

Module 2

Measuring & Marking Practice

Module 3

Fastening & Fitting

Module 4

Electrical & Electronics

Module 5

Hydraulics & Pneumatics

Module 6

Specifications & Servive Equipments

Module 7

Diesel Engine Overview

Module 8

Diesel Engine Components

Module 9

Cooling & Lubrication System

Module 10

Intake & Exhaust System of Engine

Module 11

Diesel Fuel System

Module 12

Emission Control System

Module 13

Charging & Starting system

Module 14

Trouble Shooting

After completing an ITI in Diesel Mechanic, you can pursue various job opportunities in industries that utilize diesel engines, including roles as a diesel mechanic, maintenance technician, fleet supervisor, or even start your own repair shop.

Here's a more detailed breakdown of career paths and opportunities:

Job Roles & Industries:

- **Diesel Mechanic:** Diagnose and repair problems in various diesel-powered vehicles and equipment.
- **Maintenance Technician:** Ensure the smooth operation of diesel-powered machinery and equipment in industries like transportation, construction, agriculture, and manufacturing.
- **Fleet Supervisor:** Manage and maintain fleets of vehicles for logistics or transport companies.
- **Service Advisor:** Handle customer service and schedule repairs in automotive workshops.
- **Self-Employment:** Open your own Driving School, Diesel repair workshop or become a freelancer.
- **Marine & Railway Sectors:** Maintain ships or trains in these sectors.

Other Opportunities:

- Pump Operator
- Tool Handler
- Machine Operator
- Engine Mechanic
- Laboratory Assistant
- Dealer's Service Machine

Industries:

- Service stations
- Independent repair shops
- Vehicle service stations
- Vehicle parts wholesalers and distributors
- Bus and transport companies
- Organizations that maintain their own vehicles
- Government departments
- Carbonated soft-drink Industry
- Manufacturing industries
- Construction industries
- Agricultural industries
- Marine and Railway Sectors

Further Development:

- **Advance Certifications/Diplomas:** Consider further certifications or diplomas in advanced engine technologies to enhance your skills and career prospects.
- **Supervisory/Management Roles:** With experience, you can advance to supervisory or management roles within the industry.
- **Apprenticeship:** Seek apprenticeship opportunities in manufacturing industries like Indian Oil or ONGC.
- **Government Exams:** Prepare for government exams like loco pilot in the railway sector.

Further education

- **Polytechnic Diploma**
After ITI course, you can be eligible for admission to diploma course, which will take three years to complete
- **Engineering degree**
After completing the diploma course, you can pursue a Degree course through lateral entry which will take only 3 years to complete.

POSSIBLE CAREERS

Authorized Automobile service centres



Autoparts Manufacturing Companies



Independent repair Workshop



Commercial Automobile Manufacturers



Indian Railways





DRAUGHTSMAN(CIVIL)

ITI

NCVET - GOVERNMENT OF INDIA

NATIONAL TRADE CERTIFICATE COURSE

2 YEAR - SSLC PASS - BOYS & GIRLS NO AGE LIMIT

By completing the course a Draughtsperson, Civil: prepares drawings of buildings, stores, high ways, dams, culverts, etc. from sketches, notes or data for purposes of construction or alternations. Takes instructions form Civil Engineer studies sketches and calculates dimensions from notes or data. Draws to given scale different elevations, plan, sectional views etc. of desired construction using drawing instruments. Draws detailed drawings of specific portions as required. Indicates types of materials to be used, artistic and structural features, etc. in drawing as necessary. May do tracing and blue printing. May reduce or enlarge drawings. May prepare or check estimate schedules for cost of materials and labour. May prepare tender schedules and draft agreements. May work as Draughtsman Architectural.

Draughtsperson, Structural; prepares drawings of bridges, steel structures, roof tresses etc. From sketches, designs or data for purposes of construction, alteration or repairs. Studies sketches, data, notes etc. and receives instructions from Structural or Mechanical Engineers regarding details and types of drawings to be made. Calculates dimensions as necessary from available notes, data etc. and by application of standard formulae. Draws to scale detail, assembly and arrangement drawings showing sectional plan and other views as directed and prints (writes) necessary instructions regarding materials to be used, limits, assembly etc. to clearly indicate all aspects of structure to be manufactured. May prepare estimate and operation schedules for labour and material costs. May prepare tender schedule and draft agreements. May prepare tables showing requirements of bars, their numbers, sizes and shapes. May trace and make blue prints.

Draughtsperson, Topographical; Sketches topographical drawings to scale in different colours using blue print prepared from field plane tables. Carries out independently projection of small scale map to predetermined size, incorporating features covered in survey, producing total geographical effect by hill shading, giving contours, profile, cross sections, authorized symbols, etc. Uses grid tables, projection table compasses, pantograph, planimeter, etc.

During the two-year duration a candidate is trained on subjects Professional Skill, Professional Knowledge, Workshop Science & Calculation and Employability Skill related to job role. After passing out the training program, the trainee is awarded National Trade Certificate (NTC) by DGT which is recognized Worldwide.

CURRICULUM STRUCTURE

Year 1	Year 2
Module 1 Safety	Module 1 Building Drawing
Module 2 Basic Engineering Drawing	Module 2 Computer Practice
Module 3 Masonry	Module 3 3D Modelling in CAD
Module 4 Foundation	Module 4 Public Building Drawing
Module 5 Temporary Structure	Module 5 Reinforced cement Concrete Structure
Module 6 Treatment for Building	Module 6 Steel Structures
Module 7 Arches & Lintels	Module 7 Public Health & Sanitation
Module 8 Chain Surveying	Module 8 Road Engineering
Module 9 Compass Surveying	Module 9 Bridge Engineering
Module 10 Plane table surveying	Module 10 Railway Engineering
Module 11 Carpentry	Module 11 Irrigation Engineering
Module 12 Electrical Wiring	Module 12 Estimating & Costing
Module 13 Floors	Module 13 Total Station
Module 14 Vertical movement	Module 14 Global Positioning system
Module 15 Pitched Roof	
Module 16 Levelling	
Module 17 Theodolite Survey	

After completing an ITI Draughtsman Civil course, you can pursue further education with a Diploma in Civil Engineering (lateral entry), specialize in CAD software like AutoCAD, become a surveyor, take on roles like a site supervisor, estimator, or CAD technician, and seek employment in construction, infrastructure, and government sectors related to civil engineering.

Key options after ITI Draughtsman Civil:

Job roles:

- **Civil Draughtsman:** Utilize your drafting skills to create detailed construction drawings.
- **Site Supervisor:** Monitor construction activities on site, ensuring compliance with project plans
- **Surveyor:** Conduct land surveys to gather data for construction projects
- **Estimator:** Prepare cost estimations for construction projects
- **CAD Technician:** Create digital 2D and 3D models using CAD software

Industries to work in:

- Construction companies
- Infrastructure development firms
- Architectural design firms
- Government departments related to construction and planning

Industries to work in:

- Construction companies
- Infrastructure development firms
- Architectural design firms
- Government departments related to construction and planning

LBS LICENSE

Qualification required and categories of license:

- **ITI**
 - **SUPERVISOR B**
Min 5 year experience under a licensed engineer, who should have 5 or more years of practice.
Building upto 300sqm or 2 storey can be verified.
 - **SUPERVISOR A**
8 years of work experience as Supervisor B
Buildings upto 750 sqm or 11m height can be verified
 - **SUPERVISOR SENIOR**
10 years of work experience as supervisor A
 - **ENGINEER B**
3 Years of work experience as Supervisor senior
- **Diploma in Civil engineering**
 - **SUPERVISOR B**
Min 2 year experience under a licensed engineer, who should have 2 or more years of practice.
Building upto 300sqm or 2storey can be verified.
 - **SUPERVISOR A**
4 Years of work experience as supervisor b
Building upto 750sqm or 11 m height can be verified
 - **SUPERVISOR SENIOR**
6 years of work experience as Supervisor A
 - **ENGINEER B**
3 Years of work experience as Supervisor senior
- **B.Tech in Civil engineering/ B.Arch**
 - **ENGINEER A**
No work experience required
For B.Arch:3 storey or upto 11m

POSSIBLE CAREERS

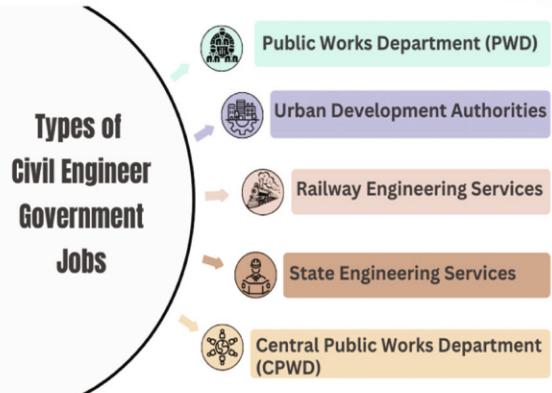
Construction Companies



Engineering Consulting Firms



Govt: Agencies (Local, State & Federal)



Transportation Authorities



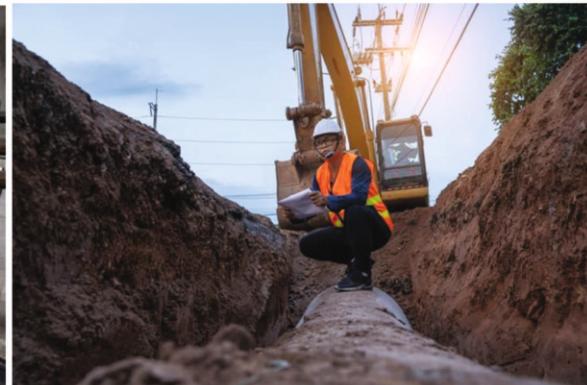
Energy & Utility companies



Railway Civil Engineering



Irrigation & Drainage Department





FITTER

ITI

NCVET - GOVERNMENT OF INDIA

NATIONAL TRADE CERTIFICATE COURSE

2 YEAR - SSLC PASS - BOYS & GIRLS NO AGE LIMIT

By completing the course a Fitter will able to: Size metal parts to close tolerances and fits and assembles them using hand tools for production or repairs of machines, or other metal products. Studies drawings to understand specification of different parts, fittings or assembles to be made and their functions. They select materials, appropriate tool and equipment to carry out their work. Holds the work in Vice, Cuts and shapes required parts to dimensions and specifications by processes of sawing, chipping, filing, grinding, drilling holes, screw cutting, scrapping etc., using hand tools for making specimens or finished components. Measures object while working using foot rules, calipers, micrometer, gauges etc. and checks for correct filing with square. Gets half-finished object marked or marks it himself using face plate, marking block scriber, vernier, height gauges, vee-blocks, angle plate, sine plate, slip gauges, combination set, etc. depending on accuracies required, to indicate guide lines for finished sizes, holes to be drilled and pitch centres, threads to be cut and other working details as specified in drawing or sample. Clamps object securely in correct position in vice and files it to required dimensions according to punch marks and guide lines frequently measuring it with calipers, micrometre, vernier, gauges etc, makes holes with drill, cuts threads with taps and dies ensuring that they are square or at required angle to base. Measures finished article with dial indicator, micrometre, vernier, height gauges, screw gauges, plug gauges, sine bar, slip gauge, etc. according to prescribed accuracies. May make parts separately and assemble those with screws, rivets, pins, etc. as specified so as to make complete unit according to drawing. Dismantles or removes worn out, broken or defective parts using hand tools or power tools and replaces them by repaired or new ones. Performs repairing and maintenance work (including preventive maintenance) of simple machines, dismantles and replaces different components to construct circuit of Pneumatics and Hydraulics. Tests completed article/ assembly to ensure correct performance. May do simple turning of parts on machines and perform welding, brazing, and like operations. May explain heat treatment processes viz., annealing, hardening, tempering etc. May specialize in particular type of machine or product and be designated accordingly. May suggest alterations. In addition, Fitter have the ability to visualize the job, good coordination, mechanical attitude, manual dexterity and perform work related mathematical calculations. Plan and organize assigned work and detect & resolve issues during execution. Demonstrate possible solutions and agree tasks within the team. Communicate with required clarity and understand technical English. Sensitive to environment, self-learning and productivity. May be designated as FITTER General according to nature of work done. The practical part starts with basic fitting with tolerance level $\pm 0.5\text{mm}$ and finally to $\pm 0.02\text{mm}$ and angular tolerance from 1° to $10'$ at the end of the course.

During the two-year duration a candidate is trained on subjects Professional Skill, Professional Knowledge, Workshop Science & Calculation and Employability Skill related to job role. After passing out the training program, the trainee is awarded National Trade Certificate (NTC) by DGT which is recognized Worldwide

CURRICULUM STRUCTURE

Year 1	Year 2
Module 1 Safety	Module 1 Assembly
Module 2 Basic Fitting	Module 2 Gauges
Module 3 Sheet metal	Module 3 Pipes & pipe fittings
Module 4 Welding	Module 4 Drill Jig
Module 5 Drilling	Module 5 Repairing Technique
Module 6 Fitting Assembly	Module 6 Hydraulics & Pneumatics
Module 7 Turning	Module 7 Preventive maintenance
Module 8 Basic Maintenance	Module 8 Erection & Testing

- After completing an ITI Fitter course, you can pursue various career paths in both the public and private sectors, including roles as fitter, welder, machine operator, pipe fitter or technician or higher education. Apply for jobs in the Indian Army, Navy, and Air Force

Jobs

Fitter: Install, fabricate, and assemble structural components in the auto, aircraft, manufacturing, or mining industry

Welder: Operate machines that manufacture and repair metal structures, tools, and equipment in the automotive, construction, and manufacturing industries

Mechanic: Work in the auto, aircraft, manufacturing, or mining industry

Artificer Apprentice (AA): Work in the mechanical, electrical, and technical branches of the Indian Navy

Higher education

- **Diploma in Engineering or Polytechnic:** Pursue a diploma in Mechanical Engineering through lateral entry after the ITI course which can be completed by two years.

- **Bachelor of Engineering (B.Tech.):** Pursue a Bachelor of Engg. after completing Diploma through Lateral Entry which can be completed by 3 Year.

Self-employment

- Work as a self-employed fitter in the production and manufacturing industries
- Work as a contractual fitter in the production and manufacturing industries

POSSIBLE CAREERS

Machine Operator



Technician



Millwright



Fitter Jobs in Indian railway



Fitter Jobs in Shipyards



ISRO Technician B

Indian Space Research Organisation

ISRO LPSC

**TECHNICAL ASSISTANT
TECHNICIAN & OTHER**



Apprentice in Indian Navy

DEFENCE
adda247

Indian Navy
ITI Apprentice



Syllabus for CTS ITI Trades

NSQF Compliant Syllabus : Available at (www.cstaricalcutta.gov.in/syllabi.aspx)

National Skills Qualifications Framework (NSQF)

The National Skills Qualifications Framework (NSQF) is a competency-based framework that organizes all qualifications according to a series of levels of knowledge, skills and aptitude. These levels, graded from one to ten, are defined in terms of learning outcomes which the learner must possess regardless of whether they are obtained through formal, non-formal or informal learning. NSQF in India was notified on 27th December 2013. All other frameworks, including the NVEQF (National Vocational Educational Qualification Framework) released by the Ministry of HRD, stand super ceded by the NSQF.

Under NSQF, the learner can acquire the certification for competency needed at any level through formal, non-formal or informal learning. In that sense, the NSQF is a quality assurance framework. Presently, more than 100 countries have, or are in the process of developing national qualification frameworks.

The NSQF is anchored at the National Skill Development Agency (NSDA) and is being implemented through the National Skills Qualifications Committee (NSQC) which comprises of all key stakeholders. The NSQC's functions amongst others include approving NOSs/QPs, approving accreditation norms, prescribing guidelines to address the needs of disadvantaged sections, reviewing inter-agency disputes and alignment of NSQF with international qualification frameworks.

Specific outcomes expected from implementation of NSQF are:

- i. Mobility between vocational and general education by alignment of degrees with NSQF
- ii. Recognition of Prior Learning (RPL), allowing transition from non-formal to organized job market
- iii. Standardized, consistent, nationally acceptable outcomes of training across the country through a national quality assurance framework
- iv. Global mobility of skilled workforce from India, through international equivalence of NSQF
- v. Mapping of progression pathways within sectors and cross-sectorally
- vi. Approval of NOS/QPs as national standards for skill training

EXAMINATION GUIDELINES

1 YEAR AND 2 YEAR COURSES

1 year course will have 1 Practical and 1 Trade Theory exam

2 year course will have 1 Practical and 1 Trade Theory exam in each year.

Trade Theory consists of – Paper I & Paper II

Paper I (50 questions 2 marks each) (100Marks)

Part A- Trade Theory (38 questions)

Part B- Workshop Calculation science (6 questions),

Part C -Engineering Drawing (6 Questions)

Paper II- Employability Skills with IT & AI (25 Questions)(50Marks)

It is necessary for the candidates to ensure to secure a minimum of 33 % marks in each of the Theory paper and 60% marks For Practical and formative assessment. i.e. 33 marks out of 100 for Trade Theory and 17 marks out of 50 for Employability skills and 150 out of 250 for Practical and 120 out of 200 for Formative assessment. Total Marks 600.

DGT will conduct Computer based Test (CBT) for all theoretical papers in CTS scheme.

The Craftsmen Training Scheme (CTS) is implemented through 15,000+ Government and Private ITI's throughout the country, enrolling approximately 1.4 million candidates annually. The assessments for candidates enrolled into the ITI's is mandated to be done on an annual basis in theoretical and practical subjects, from academic year 2018-19 onwards. With the philosophy of continuous improvement and vision of bringing in 'Examination Reforms', the DGT intends to conduct the theory examinations online/CBT, for candidates enrolled under CTS scheme across the country . Online/CBT examinations are expected to bring in more efficiency, transparency, effectiveness and relevance to the system. The initiative will also strengthen monitoring of outcomes related to various DGT/ Go! initiatives directed towards improved learning such as STRIVE.

Trainees may be allowed to appear in AITT for total 04 attempts i.e. 01 attempt as regular and 03 additional attempts as supplementary to pass the AITT.

Supplementary exam will be held every 6 months or even 3 months. If a trainee does not appear in any one or none of the 1+ 3 additional attempts as supplementary, the trainee will lose that attempt and registration will expire.

The registration of trainee will expire after 1+ 3 additional attempts as supplementary.

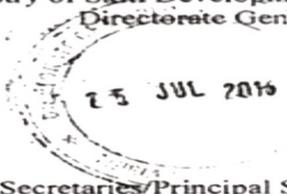
If a trainee does not successfully pass the AITT in this period, the name of the trainee will be struck -off from the portal.

Trainees who have completed the prescribed period of training with minimum attendance of 80% are eligible to take the test.

MSDE (DGT)- 4/ 14 / 2014-16-CD(Pt-II)
Government of India
Ministry of Skill Development and Entrepreneurship(MSDE)
Directorate General of Training(DGT)

21778

Shram Shakti Bhavan, New Delhi
Dated : 20th July, 2016



To

1. The Secretaries/Principal Secretaries of all the State Govts / UT Administrations dealing with Vocational Training
2. The Directors dealing with Vocational Training of all States/ UT Administrations

Sir,

I am directed to convey that Directorate General of Training(DGT) under the Ministry of Skill Development and Entrepreneurship and National Institute of Open Schooling (NIOS) under the Ministry of Human Resource and Development have signed an MoU to put in place a system of academic equivalence to ITI qualification thereby opening options to meet aspirations of those candidates of ITI system who want to attain higher academic qualification in addition to their skills.

2. The MoU also enables the ex-trainees of ITIs, holding National Trade Certificate(NTC) to earn secondary/senior secondary qualification. The other broad provisions incorporated in the MoU are as under :

- i. NIOS will enrol the pass-outs of ITIs as well as those undergoing training in ITIs in NSQF compliant trades.
- ii. Class VIII pass-outs with 2 Years of ITI courses will be considered for Secondary School Certificate. Similarly, Class X pass-outs with 2 years of ITI courses will be considered for Sr. Secondary School Certificate.

-2-

- iii. For getting academic equivalence, the learners would be required to opt for one language course from the group of language courses offered by NIOS in Group A and one academic subject offered by NIOS from Group C(both at Secondary level and at Senior Secondary level, as the case may be). The Group C includes a course on Employability Skills and entrepreneurship at Secondary as well as.Senior Secondary level
- iv. 60% of the total credits will be transferred from ITI (equivalent to vocational courses) and 40% will be earned by learner from NIOS.
- v. Learners will be eligible for public examination of NIOS held twice a year or they can opt for On-Demand Examination held at their Regional Centers.
- vi. The successful learners of ITIs would be awarded Secondary or Senior Secondary Certificate as the case may be.

3. The MoU authorizes NIOS for accreditation of ITIs affiliated to NCVT, as their study centers. The ITIs have to apply directly to NIOS under intimation to NCVT for NIOS accreditation. The detailed guidelines issued by NIOS in this regard are enclosed for information and wide circulation.

4. You are requested to circulate this order to all ITIs in your State and give wide publicity of above arrangements amongst trainees of fresh batches of ITIs so that they could avail the advantages of the new provisions. The trainees can enroll themselves with NIOS for two subjects in parallel with CTS programme. Credit for three subjects would be transferred from marks obtained in AITT under the aegis of NCVT ITI, so that after two years they can get two certificates. (A LTS certificate and a Secondary or a Senior Secondary Certificate, as the case may be.

Yours faithfully

(Deepankar Mallick)
Deputy Director
General of Training
Tel.23710485

To implement the above commitment, the ministry has taken proactive measures and as a result Directorate General of Training under M/o Skill Development and Entrepreneurship and National Institute of Open Schooling (NIOS) under Ministry of Human Resource Development have signed a MoU on 14th July, 2016 to put in place a system for academic equivalence to vocational/ITI qualification, there by opening options to meet aspirations of those candidates of ITI system who want to attain high academic qualification in addition to their skills.

This MoU also open path ways for ex-trainees of ITI, holding National Trade Certificate (NTC) to earn secondary/senior secondary qualification. Under the MoU following arrangements have been made-

- i. NIOS will enrol the pass outs of ITIs/ undergoing training in ITI in NSQF compliant trades.
- ii. Class VIII pass with 2 years of ITI courses will be considered for award of Secondary School Certificate. Similarly, Class X pass with 2 years of ITI courses will be considered for award of Sr. Secondary School Certificate.
- ii. For Secondary Course, the learners will have to take one language from the group of languages offered by NIOS at Secondary and Senior Secondary level and one academic subject offered by NIOS including course on Employability Skill and entrepreneurship at Secondary and Senior Secondary level
- iv. 60% of the total credit will be transferred from ITI (equivalent to vocational courses) and 40% will be earned by learner from NIOS.
- v. Learner will take public examination of NIOS held twice a year or On Demand Examination at Regional Centres.
- vi. Fifteen Central field Institutes of DGT have been registered with NIOS as Special Accredited Institution for Academic and Skill Development (SAIASD) so that they support the learners in the admission process and their participation in the examination of NIOS to avail benefit of the above arrangement.

A Working Group has been constituted for introduction of Credit Framework for recognizing skill and education as a part of an integrated learning system under the mandate of the National Skill Qualification Framework (NSQF).

How can I apply for a Vocational Education course at NIOS?

To apply for a Vocational Education course at NIOS, you need to visit the official NIOS website www.nios.ac.in or <https://sdmis.nios.ac.in> and follow the online application process outlined there. It involves online registration, selecting the desired course and payment of fees. 12. What is the duration of NIOS Vocational Education courses? The duration of NIOS Vocational Education courses varies depending on the specific course. It ranges from six months and one year Certificate and Diploma courses to two year Advanced Certificate and Diploma courses. The duration of all the vocational courses are mentioned in the Vocational Prospectus available on the NIOS web portal. <https://www.nios.ac.in>



CAREER ORIENTED 3 YEAR DIPLOMA COURSES
EXAMINATION CONDUCTED BY AND CERTIFICATES ISSUED BY
INDIAN TECHNICAL EDUCATION SOCIETY – MUMBAI

Diploma courses

1. Diploma in mechanical engineering services
2. Diploma in Electrical Engineering Services
3. Diploma in Automobile Engineering Services
4. Diploma in Refrigeration & Electronics Engineering Services
5. Diploma in Electrical & Electronics Engineering Services
6. Diploma in Civil Engineering Services

Certificate Courses

- | | |
|----------------|------------------------|
| 1. Electrician | 4. Welder |
| 2. Wireman | 5. Civil Draughtsman |
| 3. Fitter | 6. Automobile Mechanic |

Scheme of Examination

Theory three paper 100 marks each

Practical two paper : 75 Practical+15 Journal + 10 Viva =100

ALL THE ITI & SSLC PASSED STUDENTS CAN APPEAR FOR THE ABOVE ITES
EXAMINATIONS EXAMINATION FEE MUST BE REMITTED AS NOTIFIED
FROM TIME TO TIME

മെക്കാനിക്കുകൾക്കും - ടെക്നീഷ്യന്മാർക്കും

BLUETRONIX



Approved by Central & State Governments
Short term certificates courses
3 and 6 months practical oriented courses

Air conditioning & Refrigeration Mechanism

Electrician

Welding

Automotive repair

Diesel Mechanic

Plumber

Electronics

Fitter

Civil Draughtsman

അറിയാവുന്ന തൊഴിലിനുള്ള സർട്ടിഫിക്കറ്റിന്റെ അഭാവം മൂലം തൊഴിലവസരങ്ങൾ നിഷേധിക്കപ്പെട്ട്, വിദേശ രാജ്യങ്ങളിൽ നിന്നും ആയിരക്കണക്കിന് ആളുകൾ പുറം തള്ളപ്പെടുന്നു. വർഷങ്ങളുടെ പ്രവർത്തി പരിചയം ഉണ്ടെന്നുപറഞ്ഞിട്ടെന്തു കാര്യം, അത് തെളിയിക്കാനുള്ള സാക്ഷ്യപത്രം ഇല്ലെങ്കിൽ ഗവൺമെന്റ് സർട്ടിഫിക്കറ്റ് നേടാൻ കഴിഞ്ഞില്ലെങ്കിലും, കേന്ദ്ര സംസ്ഥാന ഗവൺമെന്റ് അംഗീകരിച്ചിട്ടുള്ള സാങ്കേതിക സ്ഥാപനങ്ങൾ നടത്തുന്ന ട്രേഡ് ടെസ്റ്റ് പാസ്സായാൽ കിട്ടുന്ന കോഴ്സ് സർട്ടിഫിക്കറ്റ് നേടാനായാൽ ഒരളവുവരെ മേൽ പറഞ്ഞിട്ടുള്ളതിന് പരിഹാരം ആകുന്നതാണ്. നൂറുകണക്കിന് തൊഴിൽ അവസരങ്ങൾ ആണ് ഉള്ളത്. ഇതിനെല്ലാം ഗവൺമെന്റ് പരീക്ഷ നടത്തി സർട്ടിഫിക്കറ്റുകൾ നൽകുന്നില്ല. ഗവൺമെന്റ് അംഗീകൃത സ്ഥാപനങ്ങൾ നൽകുന്ന സർട്ടിഫിക്കറ്റുകൾ ആണ് ഇതിനായി ഉപയോഗിക്കപ്പെടുന്നതും അംഗീകരിച്ചിട്ടുള്ളതും. ഒരു വർഷം, രണ്ടു വർഷം, മൂന്നു വർഷ കോഴ്സുകൾ ആണ് ഈ സ്ഥാപനത്തിൽ നടത്തിവരുന്നത്. കേന്ദ്ര സംസ്ഥാന ഗവൺമെന്റുകളുടെ അംഗീകാരവും അഫിലിയേഷനും, ഇന്ത്യൻ സാങ്കേതിക വിദ്യാഭ്യാസ സംഘടനയുടെ അഫിലിയേഷനും, സാങ്കേതിക വിദ്യാഭ്യാസ മേഖലയിൽ 60 വർഷത്തോളം ഉള്ള പ്രവർത്തി പരിചയവുമാണ് ബ്ലൂട്രോണിക്സിനുള്ളത്. ഓരോരുത്തരുടെ അടിസ്ഥാന വിദ്യാഭ്യാസ യോഗ്യത, തൊഴിൽ പരിജ്ഞാന കാലാവധി, അതായത്, ട്രേഡിലുള്ള പ്രായോഗിക അറിവ്, കൂടാതെ ഈ സ്ഥാപനത്തിൽ വച്ച് നടത്തുന്ന ട്രേഡ് ടെസ്റ്റ് എന്നിവയുടെ അടിസ്ഥാനത്തിലായിരിക്കും കോഴ്സ് സർട്ടിഫിക്കറ്റുകൾ നൽകുന്നത്.

Rules and Regulations of the Institute

Mode of Admission

- ❖ The prospectus and application form will be available from the office.
- ❖ The application form duly completed should be submitted along with the following documents
 1. Original and 3 copy of SSLC
 2. Original Transfer certificate (TC)
 3. Attested copy of caste certificate in case of SC/ST candidates
 4. 3 copies of Passport size photo with white background
 5. Copy of Aadhar
- ❖ Candidates should be accompanied by their parent/Guardian at the time of admission.

FEES

- ❖ Fees should be paid on or before 10th of every month. Those who fail to remit the fee on or before 10th will be required to pay the same before 20th with a fine of Rs. 10 and at the rate of Rs. 5 for every following day up to the 30th. No student shall be allowed to attend the class, if he fails to remit the fee on the final date.
- ❖ Fees once paid will not be refunded or transferred under any circumstances.
- ❖ Students are not allowed to sit for the final examination unless all dues are cleared.
- ❖ After the admission a student or his parent/guardian is bound to pay the entire amount of fees even if the student terminates his course at the institute before the due time. This is strictly required for obtaining from the office all the certificates and papers connected with his career.

Leave and attendance

- ❖ No student will be allowed to absent himself from the class without proper leave letter from guardian.
- ❖ On the day of leave parent should report the leave in the provided whats app group provided by the institution.
- ❖ In case of illness prolonging more than one week a medical certificate issued by a medical officer should be produced.
- ❖ A student who absent himself from the class during any hour of the day, without leave, will be considered absent for the whole day and will lose one day's attendance.
- ❖ Late comers will not be allowed to enter the class.
- ❖ Students are not allowed to leave the class room without the permission of the teacher in charge.
- ❖ A student who has been less than 80% of the total attendance is not eligible to appear for the final examination.

CLASS TIMINGS

- ❖ The number of working hours will be fixed at seven and half hours per day.
- ❖ Saturday will be a Holiday.
- ❖ Trainees will be allowed all holidays fixed by the DIRECTOR OF TRAINING, and also by the Head of the Institute in emergence situations.

UNIFORM AND WORKING DRESS

- ❖ All the trainees are required to wear uniform and working dress from the very first working day itself.
- ❖ It is a strict condition that a trainee will be allowed to enter the institution only with the prescribed uniform, stitched, as per the direction of the Principal/Head of the Institute.
- ❖ Working dress should be worn in workshops and uniform inside the class rooms.

IDENTITY CARD

- ❖ Each trainee will be issued an identity card, valid for the complete period of his training in this institution.
- ❖ Duplicate identity card will be issued on the payment of a fine and on application by the trainee to the Principal/Manager

MONTHLY ASSESSMENT

- ❖ Monthly tests are conducted once in 30 days in all the subjects, of all trades/courses.
- ❖ Progress reports are kept up to date so as to assess the progress of the trainee at a glance.
- ❖ Reports will be sent to the parent/guardian.
- ❖ Formative assessment will be done after completing each Topic,
- ❖ Its compulsory to attain 60% marks to get eligibility for AITT (All Indian Trade Test).
- ❖ Formative assessment is carried out based on the parameters Safety consciousness, Proper use of tools, Attendance & Punctuality, Application of knowledge, Speed in doing work, Quality of work & Viva.

ON JOB TRAINING (OJT) & PLACEMENT

- ❖ OJT is compulsory for all trainees. OJT will lead to placement of the trainees in companies.
- ❖ Selection for OJT is depending upon the Formative assessment marks and Fees clearance.

DISCIPLINE

- ❖ Trainees should maintain strict discipline in the institution.
- ❖ Trainees will not be permitted to bring mobile phones inside the college premises.
- ❖ Smoking and using any type of intoxicating materials are also banned
- ❖ Violating the rule, the matter will be reported to the nearest Police Station, for necessary actions & also the termination of the trainee from the institution.
- ❖ Any complaints which are informed to the parent/guardian of the trainee, he/she should contact the Managing Director/Principal immediately.
- ❖ ITI Managing Director/Principal reserves the right to cancel or alter the rules whenever necessary and the students will have to abide by it.
- ❖ Notwithstanding anything contained elsewhere, the Managing Director/Principal reserves all the right to suspend, discharge or dismiss any trainee without assigning any reason there of. His/her decision is final and unquestionable on any account.

THE SIGNING TO THE ADMISSION FORMS WILL CONSTITUTE AN AGREEMENT ON THE PART OF THE PARENTS/GUARDIANS AND CANDIDATES TO THE ABOVE CONDITIONS

CONCESSIONAL TRAVELLING FACILITIES

All travelling concessions by the Central & State Governments are available to students of this institution.

RAILWAYS

Season ticket at student's concessional rate will be available to students who have to travel daily by train to attend the institution.

Single journey tickets at student's concessional rates are issued to students from distant places, for travelling between their homes (anywhere in India) and this institution on vacation and for journey to and from examination centers.

KSRTC & PRIVATE BUSES

Season tickets at student's concessional rates are allowed by the Kerala Transport Corporation (install KSRTC Concession app from play store) and concession cards in private buses will be available to students of this institution.

WATER TRANSPORT

Students of this institution are eligible for travelling concessions in the boats owned by the Kerala Water Transport Corporation and in the boats owned by the department of Water Transport Government of Kerala

HOSTEL Accommodation

Accommodation facilities shall be arranged for students coming from distant places. All expenses should be met by the trainees themselves.

LIBRARY

Our library is equipped with technical and theoretical text books on a wide range of subjects to better the academic pursuit of the students of the institution.

COMPUTER KNOWLEDGE

IT Literacy, Introduction to Artificial Intelligence, General Engineering and General knowledge classes are arranged with a view to improve the general standard of the trainees. Trainees will be informed of the most modern technical achievements all over the world.

GUEST FACULTY

Prominent persons from government and private organizations will deliver lecture on selected topics of study from time to time.

Our OJT & Placement partners:-

JESSERTM



AQUANEETA[®]
SMART WATER PURIFICATION SOLUTIONS



Amphenol



Neutron





MARUTI SUZUKI ARENA

MAIJO MOTO
Kundannoor, Kakkanad



रोल नं. Roll No. 00150832167239

प्रमाण-पत्र सं. Certificate No. 17324000012351



भारत सरकार

GOVERNMENT OF INDIA
कौशल विकास एवं उद्यमिता मंत्रालय

MINISTRY OF SKILL DEVELOPMENT AND ENTREPRENEURSHIP
राष्ट्रीय व्यावसायिक प्रशिक्षण परिषद्
NATIONAL COUNCIL FOR VOCATIONAL TRAINING
राष्ट्रीय व्यवसाय प्रमाण-पत्र NATIONAL TRADE CERTIFICATE



श्री/श्रीमती/कुमारी Shri/Smt/Kumari **EBIN T V**
पुत्र/पत्नी/पुत्री श्री Son/Wife/Daughter of Shri **VARGHESE T V**
माता का नाम श्रीमती Mother's name Smt. **REETHAMMA**
जन्म तिथि Date of Birth **25-Sep-1997**
संस्था का नाम Name of the Institute **PU32000240-Bluetronix College of Engg. & Private Industrial Training Institute**
ESI Road, Pallruthy, Cochin, Ernakulam, Kerala-682006
व्यवसाय का नाम Name of the Trade **Electrician**
प्रशिक्षण अवधि Training Duration **4 semester** प्रवेश सत्र Admission Session **Aug 2015**
को अखिल भारतीय व्यवसाय परीक्षा having passed All India Trade Test, माह Month **Jul** वर्ष Year **2018**
उत्तीर्ण होने पर यह व्यवसाय प्रमाण-पत्र प्रदान किया जाता है। is hereby awarded this Trade Certificate.

सदस्य सचिव Member Secretary

दिनांक Date **28-Mar-2019**

राष्ट्रीय व्यावसायिक प्रशिक्षण परिषद् National Council For Vocational Training

This is a computer generated certificate and it does not require any physical signature or attestation. All contents of this certificate can be verified for authenticity by the process of online verification through scanning the QR code printed above. The verification can also be done by visiting NCVT MIS portal (<http://ncvtmis.gov.in/Pages/Certification/Validate.aspx>) and entering the e-Certificate number.

-----FRONT-----Cut from this line and use as pocket NTC-----BACK-----



भारत सरकार GOVT. OF INDIA

कौशल विकास एवं उद्यमिता मंत्रालय
MINISTRY OF SKILL DEVELOPMENT AND ENTREPRENEURSHIP
राष्ट्रीय व्यावसायिक प्रशिक्षण परिषद्
NATIONAL COUNCIL FOR VOCATIONAL TRAINING
राष्ट्रीय व्यवसाय प्रमाण - पत्र NATIONAL TRADE CERTIFICATE

श्री/श्रीमती/कुमारी Shri/Smt/Kumari **EBIN T V**
पुत्र/पत्नी/पुत्री श्री Son/Wife/Daughter of Shri **VARGHESE T V**
व्यवसाय Trade **Electrician**
Roll No. 00150832167239 Cert No.17324000012351

आधार कार्ड संख्या Adhar card no. **592432098775**
जन्म तिथि Date of Birth **25-Sep-1997**
संस्था Institute **PU32000240-Bluetronix College of Engg. & Private Industrial Training Institute**
ESI Road, Pallruthy, Cochin, Ernakulam, Kerala-682006
प्रशिक्षण की अवधि Training Duration **4 semester**
प्रवेश सत्र Admission Session **Aug 2015**
अखिल भारतीय व्यवसाय परीक्षा All India Trade Test passed in माह Month
Jul वर्ष Year **2018**

सदस्य सचिव Member Secretary

राष्ट्रीय व्यावसायिक प्रशिक्षण परिषद् National Council For Vocational Training



INDIAN TECHNICAL EDUCATION SOCIETY

MUMBAI

Sr. No. 378

Seat No :- 440
MAH / 1001



CERTIFICATE

This is to certify that

Shinde Tushar Vishvanath

is awarded this certificate for

FITTER

having passed the said Examination

In First Class, in April / May - 2012

In testimony whereof, the President of the Society and
Chairman of the Board Of Examination.

Set the Seal of the Society and Signatures.

M.D. Warkar
Chairman



J. Kelkar
President

BLUETRONIX COLLEGE OF ENGINEERING

(TECHNICAL- COMPUTER- MANAGEMENT & INDUSTRIAL TRAINING INSTITUTE)

G. O.No.DGE&T-6(9)81-TC.G.O.(Rd)736/79/L&I-1/19-5-1979.No.(2)203/69/85(Go. of India)G.O.No.1738/(2)99/H. Encl/77/(Govt. of Kerala)Order No.E&V.E.B.ITES/106/751-7/75)
Permanently Affiliated To NCVT- Directorate General of Employment & Training, Minister, of Labour & Employment

GOVERNMENT OF INDIA

Minister, Department of Technical Education

GOVERNMENT OF KERALA

Affiliate, to the INDIAN TECHNICAL EDUCATION SOCIETY (Mumbai)

APPROVED TRADE TESTING CENTRE FOR-TECHNICAL-VOCATIONAL- ENGINEERING-COMPUTER & INDUSTRIAL TRAINING TRADES & COURSES
C-2,18-19,1,87(19)Dated.1.10.1987 T.V.U Letter No. K-F&T-6(9)85-TC Dated.01.01.1986 C-2,1-165,2001 Dated.17.01.2002 T.V.U Letter No. OOE&T 12.1.2001-TC- Dated.1-12.2001

<I.O. No. DGE&T-6.9.18.81-TC-1>(P/3) Dated.2.11.2001 C3.18.162.08(1) Dated.18.09.2008 Letter No. DGE&T-12.1.2008-TC Dated.1-107.2008.00E&T-U :163-1.

RGEF JSS 501.2 Dated.08.05.2009\XJECT RD LUS T-11025 MES\VP KL.08.02.09.2926 VTP Rg.No.632080002. ITES Affiliation No.KRL_263

KOCHI- KERALA- INDIA CERTIFICATE

This is to certify that, this certificate in _____ is
Granted to _____ who had successfully
Completed the above said course, during the academic year _____ and passed the
final Examination / Trade test, conducted by this Training Centre/College, and having been certified by the board of
examiners to be qualified to receive the same, and having been declared successful in the examination/Trade test held in
_____ / _____ and is placed in _____ Class/ Grade.

PHOTO
WITH
SEAL



DIRECTOR

(Any reference to be addressed to the Director, Blueotronix College Of Engg, Kochi- 682006 - Kerala- India)

Our Sister Concern



S B

COLLEGE OF ENGINEERING & PRIVATE ITI

PERMANENTLY AFFILIATED, APPROVED & RECOGNIZED
BY CENTRAL & STATE GOVERNMENTS

NCVET - DGT MINISTRY OF SKILL DEVELOPMENT & ENTERPRENEURSHIP
GOVERNMENT OF INDIA

THE HIGHER EDUCATION DEPARTMENT (TECHNICAL)
DIRECTORATE OF TECHNICAL EDUCATION
GOVERNMENT OF KERALA
GOVT: OF INDIA

NCVET - ITI - TRADES

MECHANIC (DIESEL) (ITI)
DRAUGHTSMAN (CIVIL) (ITI)
REFRIGERATION AIR CONDITIONING TECHNICIAN (ITI)
FITTER(ITI), ELECTRONIC MECHANIC (ITI)

KGCEE ENGG: COURSES

AUTOMOBILE ENGG:, CIVIL ENGG:
ELECTRICAL ENGG:,
REFRIGERATION & AIRCONDITIONING.

COURT JN: CHERTHALA, ALAPPUZHA
0478-2812215, 9287273329, 9847643211, 8281073295
E-mail-sbitccherthala@yahoo.in, www.sbiti.net