

# CAPITAL EDUCATIONAL AND CHARITABLE TRUST

(Established Under National Policy on Education -1968 & Indian Trust Act-1882)

AN ISO 9001 : 2008 Certified Institute



*Life begins only where education begins*



Get Entrolled And Make  
Your Future Awesome

## IN EVERY FIELD OF ACTIVITY WE NEED ENGINEERS TO MAKE NEW THINGS OUT OF THE TECHNOLOGY LEARNT BY MAN.

We have been training the youngsters for more than 19 years and we have achieved 100% in providing training and placement for more than 1,10,000 students under various central and state government welfare schemes. Most of the students who are benefited out of this scheme are from rural Tamilnadu.

Many of our students enhanced their life style by working in all over the world like Singapore, Malaysia, Australia, Dubai, Saudi Arabia, New Zealand etc... Most of our students are working in Chennai Industries which make use of this CNC technology. Our Moto is to reduce the Poverty line in Tamilnadu. We train & develop the upcoming youth to understand the demand of the current Industries' requirement. We mould them to improve their skills like self-confidence, technical knowledge, language skills, self-motivation which helps even who comes with the background of basic education can overcome the hurdles in their day to day life.

More than 800 students who are trained in our institute have brought us laurels by becoming successful entrepreneurs. We are sure to augment the society by equipping the youngsters with all sorts of required skills



### Advantages :

- ❖ 100% Job Assurance.
- ❖ The only training centre having industrial advanced machine in our campus. So we provide unlimited practical session in our own machine shop.
- ❖ We are the authorized training provider by Government of India and we provide Government certificate for the eligible candidates.
- ❖ Industrial oriented programming
- ❖ Global partners in placement
- ❖ Life long carrier guidance and technical support
- ❖ Individual attention
- ❖ Online training
- ❖ Authorized FRRO training provider for International students
- ❖ Sunday classes available.

# COURSES OFFERED

## CNC

In this never ending race of constant change and development in the world of Technology There is always a demand for the current market and future demands of skilled workforce in the field of Mechanical, and we offer the following courses

TURNING (VTL/HTL)	MILLING (VMC/HMC)
<p><b>1. Operator Training</b></p> <ul style="list-style-type: none"> <li>❖ Drawing study</li> <li>❖ Operating system</li> <li>❖ Insert Change, wear offset adjustment</li> <li>❖ Handling all types of instruments</li> </ul> <p><b>2. Setter</b></p> <ul style="list-style-type: none"> <li>❖ Work holder &amp; Tool holder selection</li> <li>❖ Speed &amp; Feed calculation</li> <li>❖ Setting</li> </ul> <p><b>3. Programmer</b></p> <ul style="list-style-type: none"> <li>❖ New product development</li> <li>❖ Linear industrial part programming all types of operation.</li> <li>❖ All types of Canned cycle programming</li> </ul> <p><b>4. Advance programming</b></p> <ul style="list-style-type: none"> <li>❖ All types of maintenance work</li> <li>❖ Parameter setting</li> <li>❖ Profile &amp; cycle time calculation</li> <li>❖ Macro programming</li> </ul>	<p><b>1. Operator Training</b></p> <ul style="list-style-type: none"> <li>❖ Drawing study</li> <li>❖ Operating system</li> <li>❖ Height offset adjustment</li> <li>❖ Handling all types of instruments</li> </ul> <p><b>2. Setter</b></p> <ul style="list-style-type: none"> <li>❖ Tool holder &amp; fixture selection</li> <li>❖ Speed &amp; feed calculation</li> <li>❖ Setting</li> </ul> <p><b>3. Programmer</b></p> <ul style="list-style-type: none"> <li>❖ New product development</li> <li>❖ Linear industrial part programming all type of operation with cutter radius using sub program.</li> <li>❖ All types of Canned cycle programming</li> </ul> <p><b>4. Advance programming</b></p> <ul style="list-style-type: none"> <li>❖ All types of maintenance work</li> <li>❖ Parameter setting</li> <li>❖ Profile &amp; cycle time calculation</li> <li>❖ Advance macro programming Scaling, Mirroring, Rotating, Plane selection, Data input setting, Rigid tapping, Local work co-ordinates setting, Automatic corner over ride and single direction</li> </ul> <p><b>Additional (Common for Turning &amp; Milling)</b></p> <ul style="list-style-type: none"> <li>❖ Entrepreneur Development Training</li> <li>❖ Soft Skill</li> <li>❖ Information &amp; Communication Technology</li> <li>❖ Safety</li> </ul>



**Duration : (Full Time - 30 Days, Part Time - 60 Days)**

# CAD CAM

# COURSES OFFERED

AUTO CAD	UNIGRAPHICS	MASTERCAM
<p><b>1. Fundamentals About AutoCAD</b></p> <p><b>2. Guide Lines In Industrial Drawing</b></p> <p><b>3. 2D Drafting</b></p> <ul style="list-style-type: none"><li>❖ Draw, Modify, Dimension</li><li>❖ Draft Setting, Ucs, Layer</li><li>❖ Create Text</li><li>❖ All types Industrial 2d Drawings</li></ul> <p><b>4. 3D Modeling</b></p> <ul style="list-style-type: none"><li>❖ Solid&amp; Solid Editing</li><li>❖ 3D Mirror, 3D Rotate</li><li>❖ 3D Orbits, 3D Fillet, 3D Array</li><li>❖ 3D Chamfer</li><li>❖ Sweep Along Guide</li><li>❖ Loft</li><li>❖ Helix</li><li>❖ Rendering</li><li>❖ All Types of Industrial 3d Drawings</li></ul> <p><b>5.Assumption of Templates</b></p> <ul style="list-style-type: none"><li>❖ Layout</li><li>❖ Plotter Setting</li><li>❖ Exporting And Importing</li></ul>	<p><b>1. Part Modeling</b></p> <ul style="list-style-type: none"><li>❖ Sketch Curve / Curve Operation / Form Feature</li><li>❖ Feature Operation / Direct Modeling / Free Form Feature</li></ul> <p><b>2. Assembling</b></p> <ul style="list-style-type: none"><li>❖ Assembling of Components, Constraints &amp; Exploded Views, Parts editing</li></ul> <p><b>3. Drafting &amp; Detailing</b></p> <ul style="list-style-type: none"><li>❖ Creating Drawing Views &amp; Dimensions</li><li>❖ Annotations &amp; Modifying Insert Test Drawing Views Insert Part List.</li></ul> <p><b>4. Manufacturing</b></p> <ul style="list-style-type: none"><li>❖ Cavity &amp;Contour Milling, Drilling &amp; Tapping</li><li>❖ All Types of Turning Operations</li><li>❖ Tooth Path Verification</li><li>❖ Code Generation &amp; Program transfer system to machine</li><li>❖ Direct Machine Training</li></ul>	<p><b>1. Creating 2D Drawings</b></p> <ul style="list-style-type: none"><li>❖ All Types Of Commands For 2D Industrial Drawings</li></ul> <p><b>2. Creating 2D Tool Paths</b></p> <p><b>3. Creating 3D Models</b></p> <ul style="list-style-type: none"><li>❖ All Types Of Icons For 3D Industrial Drawings</li></ul> <p><b>4. Creating 3D Tool Paths</b></p> <ul style="list-style-type: none"><li>❖ Boundary Box, Orientation, Analyzing</li></ul> <p><b>5. Surface</b></p> <ul style="list-style-type: none"><li>❖ Pocket, Contour, Parallel, Flow line, Project, Radial milling, scallop, Blend Corner Finishing Tool Paths</li></ul> <p><b>6. Turning</b></p> <ul style="list-style-type: none"><li>❖ Facing, turning, Boring, Threading, Grooving, And Other All types of Operations.</li><li>❖ Back Plot, Verification, Gouge Checking, Post – Processing, Editing of Programs</li><li>❖ Direct Machine Training.</li></ul>
		

Duration : Full Time - 09.30am - 04.30pm, Part Time - 09.30am - 08.00pm (3hrs per day flexible timing)

## ADVANCED QUALITY MANAGEMENT SYSTEM

### 1. PROCESS QUALITY

- ❖ Drawing
- ❖ Measuring Instrument
- ❖ Sampling method

### 2. PRODUCT QUALITY

### 3. ISO 9000 Quality Management Principles

- ❖ ISO 9001 awareness
- ❖ Six Sigma

### 4. QUALITY TOOLS

- ❖ Total Quality Management tools
- ❖ Application of Problem Solving
- ❖ 8D Approach
- ❖ QC Story Approach

### 5. POKE YOKE

- ❖ Statistical Process Control
- ❖ PPAP,DFMEA,PFMEA
- ❖ Process flow diagram
- ❖ Control Plan
- ❖ MSA(R&R , Cp, Cpk)

### 6. AUDITS

- ❖ Internal Audits, External /third party audits,
- ❖ Customer audits, Supplier audits.

### 7. SAFETY

### 8. 5S

### 9. SOFT SKILL



**Course Duration One Month  
(Full time 9.30 am to 4.00pm)**

## ADVANCED DIPLOMA MANUFACTURING

### 1. TURNING

- ❖ a) Training
- ❖ b) Setter
- ❖ c) Programmer
- ❖ d) Advance programming

### 2. MILLING

- ❖ a) Operator Training
- ❖ b) Setter
- ❖ c) Programmer
- ❖ d) Advance programming

### 3. AUTOCAD

- ❖ a) Fundamentals About AutoCAD
- ❖ b) Guide Lines In Industrial Drawing
- ❖ c) 2D Drafting.
- ❖ d) 3D Modeling
- ❖ e) Assumption of Templates.

### 4. UNIGRAPHICS

- ❖ a) Part Modeling
- ❖ b) Assembling
- ❖ c) Drafting & Detailing
- ❖ d) Manufacturing

### 5. MASTERCAM

- ❖ a) Creating 2D Drawing
- ❖ b) Creating 2D Tool Paths
- ❖ c) Creating 3D Models
- ❖ d) Creating 3D Tool Paths
- ❖ e) Surface
- ❖ f) Turning

### 6. QUALITY MANAGEMENT SYSTEM

- ❖ a) Process Quality
- ❖ b) Product Quality
- ❖ c) ISO 9000 Quality Management Principles
- ❖ d) Quality Tools
- ❖ e) Poke Yoke
- ❖ f) Audits
- ❖ g) Safety
- ❖ h) 5s
- ❖ i) Soft Skill

**Course Duration Six Months  
(Full Time - 09.30 - 04.00 pm)**

## AWARDS & EXCELLENCE



**Best Sevai Semmal Award** at Russian Cultural Centre, Chennai by Global University (USA) for the achievement in the field of Skill Training for youth development – Feb 2019



**International award** received at Kuala Lumpur Malaysia by Dr.Suresh Kumar University of Malaysia for achievement in the field of Skill Training for youth development – Aug 2018

Mr.Shanmugam was awarded with a **Honorary Doctorate** on 16.07.2017 by Mr.A.Namassivayam Honourable Minister of Public Works Department, Puducherry as a mark of recognition for his achievement in the field of education and enthusiastic social service.



National Cultural Academy has given us **GOLDEN ACHIEVER AWARD & GOLD MEDAL 2015** For the relentless service rendered by us. “As in any field of human activity the thirst for Knowledge and sincerity in one’s endeavor will always bear the fruits”

*Gold Medal and Golden Achiever Award Honoured by National Integrated Cultural Academy On 12.04.2015 at Chennai*

## GLIMPSES OF SPECIAL MOMENTS



Candidates who comes under TNSDM Scheme receives appointment order From former CM of Tamilnadu



Dr.T.Shanmugam with Dr.Charles Saniago Klang M.P. in Malaysia



Class Room Training



Practical Training



CSR 2019 Batch Certificate Ceremony



Dr.T.Shanmugam with ASDC C.E.O. in Delhi

*Success come to those who start doing something with plain dedication*

**CORPORATE OFFICE:**

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AIEMA Technology Centre, ATCRoad, Ambattur Industrial Estate, Chennai - 600 058.  
&  
No.3, Manikkam Pillai Street, Ambattur Estate, Chennai - 600 0098

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