



CENALTEC

CENTRO DE ENTRENAMIENTO EN ALTA TECNOLOGÍA

CENALTEC CHIHUAHUA

(THE HIGH TECHNOLOGY TRAINING CENTER)

Cenaltec

Our main goal is to **provide highly skilled training workforce to local and foreign industries in sectors like metal mechanics, aerospace, automotive, plastic injection molding, automation and welding - among others.**

Our more than **10,000 annual graduates are able to increase the competitiveness of private sector,** by transferring their skills into action on their jobs.

The Secretary of Innovation and Economic Development of the State of Chihuahua, in coordination with the Federal Ministry of Education, established the first **CENALTEC** in **Ciudad Juarez, Chihuahua in 2000**. In September 2006 a second Campus was opened in **Chihuahua city** in a state-of-the-art building with an investment of over 100 million pesos. Two more campuses were opened in **Cuauhtemoc** and **Parral cities**.

Cenaltec Chihuahua is located 11 km (about 7 miles) south of the International Airport. It has 3.5 hectares of land and 7000 square meters of training facilities (about 75000 sq feet).

We provide an official continuing noncredit education certificate to the trainees, due to our certified programs by the Federal Ministry of Public Education, the Workforce Development Department and the Federal Ministry of Work and Public Safety.





EQUIPMENT

- › Metrology Lab with CMM
(Coordinates measurement machine).
- › Electricity, Electromechanical Controls, Hydraulics, Pneumatics and PLC.
- › Automation Lab.
- › 3 CAD/CAM Labs with NX and CATIA Licensing, Solidworks, Mastercam & Autocad.
- › Aircraft Sheet Metal Shop with hydraulic bending brake, rolling machine.
- › Conventional Machining: Milling, Lathe & Grinding
- › Machining CNC: 3 axis F5 Makino, Five axis Hass CNC, 3 axis CNC router, 3 axis Okuma CNC Lathe.
- › Wire EDM and Sinker EDM.
- › Plastic Molding Shop with three molding machines.
- › TIG-MIG-SMAW Welding workshop.
- › Laser welding.
- › Flame cutting (oxygen).
- › Fifteen classrooms with Smart Boards.
- › 300 Trainees per shift, installed capacity (which can be increased inside the building).
- › 120 people capacity in the Catering room.
- › One infirmary.



CERTIFICATIONS BY

- › Kenteq (Netherlands).
- › Cessna.
- › Textron International, Bell Helicopter.
- › Arnprior Aerospace
(Sault College, Ontario Canadá).
- › Fokker Aerostructures.
- › Universidad Tecnológica Nacional de Argentina:
Net-Learning
- › Escuela Normal Superior del Estado de Chihuahua:
Education Science.
- › British Standards Institution (BSI):
Auditor Líder ISO 9001:2008 con énfasis en ISO/TS 16949:2009



CENALTEC'S MAIN FEATURES

- › **Educational model:** 80% hands on practice and 20% theoretical classes.
- › **Courses lenght:** 8 hours up to 600 hours- depending on Companies requirements.
- › Customer involvement in the selection and design of the course's material.

CENALTEC'S COURSES INCLUDE

- › Building's usage.
- › Equipment and tools.
- › Interactive SMART Boards.
- › Catering room.
- › Security.
- › Infirmary
- › Accident insurance
(Whithin the buliding's premises).
- › Certified trainer.
- › Printed manual.
- › Hands on- examinations troughout the course.
- › Certificate: validated by the Federal Ministry of
› Public Education.

ACADEMIC PROGRAMS:

› AEROSPACE

Electrical wiring
Sheet metal assemblies
Alloys and Materials Used in Aerospace

› METROLOGY & MEASURING

Precision measuring
Aerospace industry precision measuring

› MACHINING

Conventional machining
CNC machining

› MAINTENANCE

Mechanics
Ball screws & bearings
Hand tools

› ELECTRICAL

Residential and commercial
Electromechanical controls
Electric motors

› MECHATRONICS

Hydraulics
Pneumatic
Process failure mode and effect analysis
PLC

› COMPUTER ASSISTED DESIGN

Autocad
Catia v5
Mold design and fabrication NX
Mastercam
NX
Solidworks (CSWA-CSWP)

› PLASTICS

Plastic injection molding
Plastic extrusion
Elastomer injection molding
WELDING

› WELDING

TIG welding
SMAW welding
MIG welding
Stainless stel welding
Hot gas cutting
Laser welding

› REFRIGERATION

Basic refrigeration

GREEN TECHNOLOGIES

Photovoltaic cells system (installation & design)

› QUALITY

5's
Health and safety at work
Lean manufacturing
AS9100
ISO14000
ISO9011
ISO9000
Ts-16949
Quality tool (SPC, AMEF, MSA, APQP,PPAP)
Power lock out
Implementation of 5"S" (on site)

› ENGLISH

8 levels. National Geographic methodology