



Manufacturing

Calcasieu Parish

Career & Technical Education

What do you want to know?

- Career Tree
- Programs of Study
- Jump Start 2.0 Pathway Courses and Certification
- Local Business Opportunities
- Louisiana Colleges/Universities with Programs related to field
- Additional Resources

EDUCATION WITH PURPOSE CAREER TREE



TECHNICAL CAREERS

(Apprenticeship, Associate's Degree, Advanced Certification, Experience, etc.)

- Pipe Fitter
- Piping Inspector
- X-Ray Technician on Pipe Weld
- Structural Welder
- Lead Welder
- Mechanical Drafter
- Civil Drafter
- Structural Drafter
- Commercial Electrician
- Telecommunication Installer
- Security/Home Installer
- Certified Welder (MIG, TIG, Stick)

PROFESSIONAL CAREERS

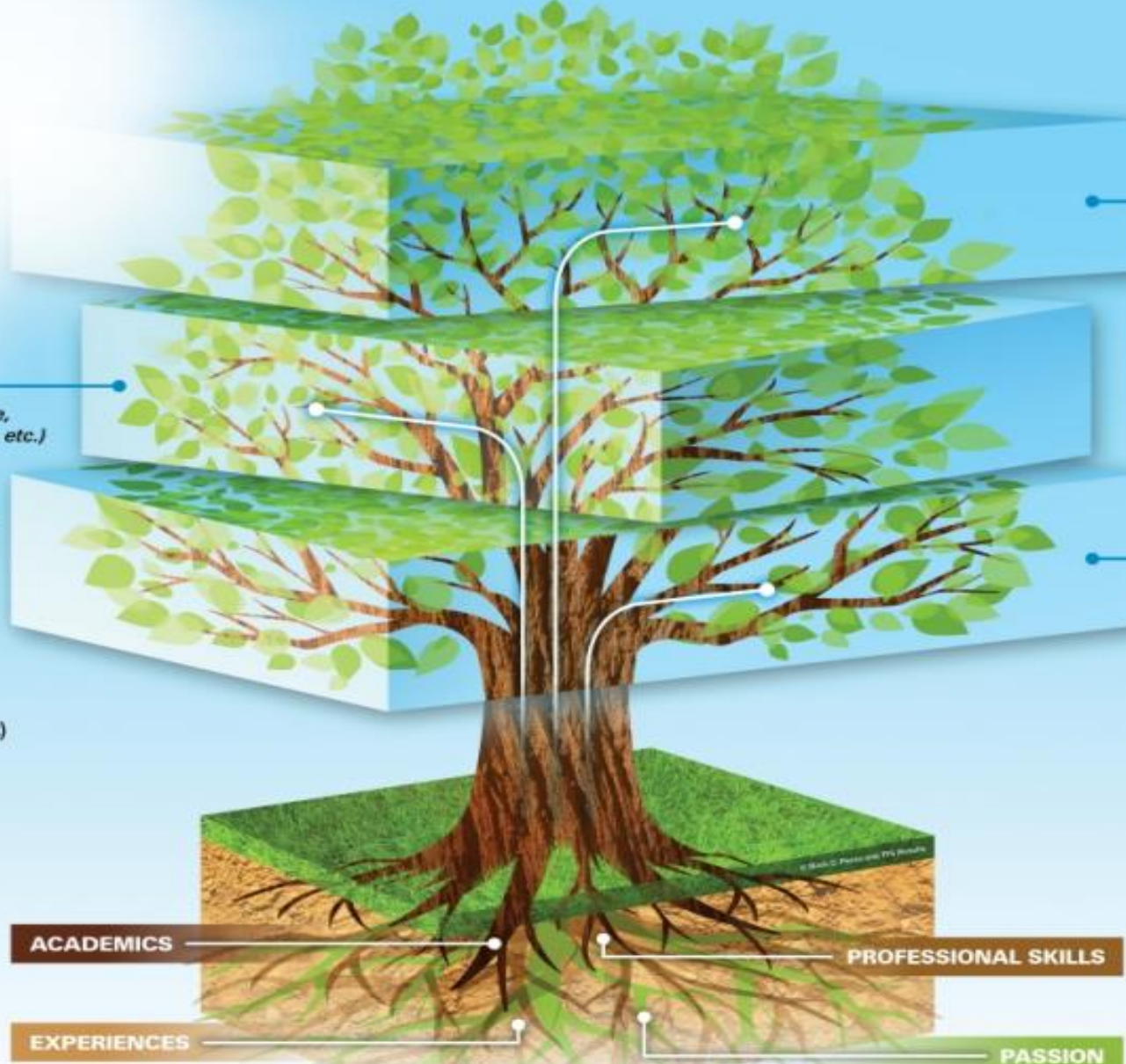
(Bachelor's, Master's, Ph.D., Specialized Training, Experience, etc.)

- Electrical Engineer
- Surveyor
- Safety Director
- Aircraft Welding Inspector
- Construction Management
- Manufacturing Engineer
- Civil/Structural Engineer
- Machining/Tech Ed Instructor
- Plant Manager
- Process Engineer
- Quality Manager
- Software Engineer/Programmer

ENTRY-LEVEL CAREERS

(with Program Completion)

- Journeyman
- Quality Control Inspector
- Landscape Drafter
- Maintenance and Repair Worker
- Apprentice Electrician
- Meter Reader
- Cable Puller
- Electrical Sales
- Forklift Operator
- Parts Picker/Handler
- Quality Assistant
- Welder/Fabricator



MANUFACTURING



For Career Tree facts and materials please visit TTCareerTree.com or call our team at 337-343-3690.



Programs of Study

The Manufacturing Career Cluster focuses on planning, managing, and performing the processing of materials into intermediate or final products and related professional and technical support activities such as production planning and control, maintenance, and manufacturing/process engineering.



CAREER READINESS

Agriscience I (010301)
 JAG I & II (042010 & 042020) *****
 Quest for Success (080411)
 ROTC III & ROTC IV (170003 & 170004)

UNIVERSAL COURSES

Accounting I (040101)

Business Computer Applications (040400)

CDF Qualifying Internship I (1 credit - 080202)
 CDF Qualifying Internship I (2 credit - 080200)
 CDF Qualifying Internship II (1 credit - 080203)
 CDF Qualifying Internship II (2 credit - 080201)

Customer Service (041001)

Emergency Medical Responder (090711) **/*****

Financial Literacy (160345)*

Foreign Language I

Foreign Language II

Intro to Business Computer Applications (040401)

Law Studies (220506)***

NCCER Core (311720) **/*****

Personal Finance (041022)

Principles of Business (040306)

Speech I (051101)

Technical Writing (120350)

Virtual Workplace Experience I (080205)**

Virtual Workplace Experience II (080207)**

* Courses taken for core requirements cannot be used for pathway credits.

** Course offered at College Street or Westlake T&I

*** Course offered at Washington Marion

**** Course offered at Sulphur High

***** Course offered at Sulphur, Barbe, Vinton & DeQuincy

Jump Start 2.0 Pathway Courses and Certification: Manufacturing

Available at:

DeQuincy, College Street Vocational Center, Sulphur, Starks and Westlake T&I.

Advanced Credential

150 SPS Points

Rigor Level 3

NCCER Level 2: Electrical, Pipefitting, Welding

Basic State Credential

110 SPS Points

Rigor Level 2

Autodesk AutoCAD Certified User
 NCCER Level I: Electrical, Pipefitting, Welding

Regional State Credential

100 SPS Points

Rigor Level 1

Approved Helper Modules of NCCER Credentials
 OSHA 10 (If Included in IEP)

PATHWAY CREDITS

Ag Leadership (010364)

Agriscience II (010302)

Agriscience III (010303)

Agriscience IV (010304)

Chemistry (150401)

Computer Technology Literacy (040220)

Drafting & Design Technology I (2 Credits - 311302)*****

Drafting & Design Technology II (2 Credits - 311312)*****

Environmental Science (150310)

Geometry (160323)*

Industrial Electronics I (311800)

Industrial Electronics II (311805)

Intro to Remote Controlled Vehicles (110795)**

Intro to Social Media (080818)**

NCCER Electrical I (2 Credits - 313402)**

NCCER Electrical II (2 Credits - 313412)**

NCCER HVAC I (2 Credits - 310102)**

NCCER HVAC II (2 Credits - 310112)**

NCCER Pipefitter I (2 Credits - 313602)**

NCCER Pipefitter II (2 Credits - 313612)**

NCCER Welding Technology I (2 Credits-313702)**/*****

NCCER Welding Technology II (2 Credits-313712)**/*****

Process Instrumentation I (110915)

Process Instrumentation II (110916)

Process Technician I (110911)

Process Technician II (110912)

Process Technician III (110919)

Local Business Opportunities: Manufacturing

Pipefitter
Journeyman –
Brown & Root

Heavy Forklift
Operator – Gulf
Stream Labor

Warehouse
Specialist -
Walmart

Project Manger –
PERC
Development

Meter Reader -
Olameter

Survey Instrument
Technician –
Thompson
Engineering

Operations
Manager – United
Rentals

Structural Welder
– Polaris
Engineering

Louisiana Colleges/Universities: Manufacturing

PUBLIC & PRIVATE COLLEGES

- Centenary College of Louisiana
- Dillard University
- Franciscan University
- Grambling State University
- Louisiana College
- Louisiana State University and Agricultural & Mechanical College
- Louisiana State University in Shreveport
- Louisiana Tech University
- Loyola University New Orleans
- McNeese State University
- Nicholls State University
- Northwestern State University of Louisiana

- Southeastern Louisiana University
- Southern University and Agricultural & Mechanical College
- Tulane University
- University of Holy Cross
- University of Louisiana at Monroe
- University of Louisiana of Lafayette
- University of New Orleans
- Xavier University of Louisiana

Community College

- Sowela Technical Community College



O*NET Online Career Cluster

<https://www.onetonline.org/find/career?c=13>

Career Clusters – Pathways to College & Career Readiness

<https://cte.careertech.org/sites/default/files/CCFrame-Manufacturing.pdf>

Career One Stop (video)

<https://www.careeronestop.org/Videos/IndustryVideos/manufacturing-overview.aspx>

myFuture

<https://myfuture.com/career/manufacturing>

Louisiana Believes: Jump Start Brief

https://www.louisianabelieves.com/docs/default-source/js-graduation-pathways/jump-start-2-0-pathways---manufacturing.pdf?sfvrsn=f8ce981f_13