

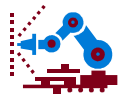


Is this the right cluster for you? Take this quiz to find out. Answer “yes” or “no” to the following questions.

- Do you like working with your hands?
- Do you like to take things apart and see how they work?
- Do you like reading computer and technical magazines?
- Do you get good grades in English, math, and science?
- Are you good at putting things together by following instructions?
- Do you like courses in school that involve hands-on projects?
- Have you held leadership positions in sports, school, or Service organizations?
- Do you like group projects and working with others to reach a common goal?
- Are you interested in using scientific principles to solve problems?
- Do you know how to use tools?

If you answered “yes” to five or more of the above questions, this may be the right cluster for you. To get a more specific and scientific measurement of your attitudes and abilities, ask your guidance counselor or teacher about taking a career assessment test or interest inventory.

Ask your guidance counselor which High School Courses and/or GCC Dual- Credit Courses you need to take in order to get started towards a future high demand– high wage occupation!



## Grayson County College

6101 Grayson Drive  
Denison, Texas 75020  
www.grayson.edu

This career cluster falls under John Holland's Personality Types:

### Realistic

- Likes to work with animals, tools, or machines; generally avoids social activities like teaching, healing, and informing others;
  - Has good skills in working with tools, mechanical or electrical drawings, machines, or plants and animals;
  - Values practical things you can see, touch, and use like plants and animals, tools, equipment, or machines; and
- Sees self as practical, mechanical, and realistic.

### Conventional

- Likes to work with numbers, records, or machines in a set, orderly way; generally avoids ambiguous, unstructured activities
  - Is good at working with written records and numbers in a systematic, orderly way;
  - Values success in business; and
- Sees self as orderly, and good at following a set plan.

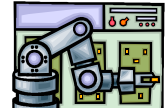


## CAREER CLUSTERS

Connecting Education  
with Your Future!



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.



Manufacturing today needs people who can understand highly technical information and make complex decisions. Workers are responsible for creative problem solving that ensures companies meet the highest quality standards. If you like building things, can follow detailed instructions, or are good at organizing people and processes, then manufacturing could be the right career cluster for you.



# C I U S T E R   K N O W L E D G E   &   S K I L L S

**Mechanical** — Knowledge of machines and tools, including their designs, uses, repair, and maintenance.

**Public Safety and Security** — Knowledge of relevant equipment, policies, procedures, and strategies to promote effective local, state, or national security operations for the protection of people, data, property, and institutions.

**Mathematics** — Knowledge of arithmetic, algebra, geometry, calculus, statistics, and their applications.

**Engineering and Technology** — Knowledge of the practical application of engineering science and technology. This includes applying principles, techniques, procedures, and equipment to the design and production of various goods and services.

## Health & Safety Quality Assurance

Operations Manager 90K+  
Mechanical Engineer 81K+  
Civil Engineer 78K+  
Quality Engineer 78K+  
Industrial Engineer Technician 52K+  
Mechatronics Technicians 42K+  
Certified Drafter 32K+  
Drafting Assistant 25K+

Certificates  
Basic Mechatronics Technician,  
CAD Technician, Drafting  
Assistant, HVAC Technician,  
HVAC Installer

Degrees  
ASS Drafting/CADD,  
AS Engineering, AAS Welding,  
AS Physics, AAS HVAV,  
AS General Studies, AS Chemistry

## Maintenance, Installation, Repair

Industrial Engineer 78K+  
Industrial Engineer Technician 52K+  
Electrical Repairers 49K+  
Engineering Technicians 48K+  
Welders, Cutters, Fitters 42K++  
Industrial Machinery Mechanics 41K+  
Medical Equip Repairer 37K+

Certificates  
CAD Technician,  
Drafting Assistant, HVAC  
Technician, HVAC Installer,  
Structural Welder,  
Combination Welder

Degrees  
ASS Drafting/CADD,  
AS Engineering, AAS Welding,  
AS Physics, AAS HVAV,  
AS General Studies

## Production & Process Development Logistics

Industrial Production Mgr. 53K+  
Industrial Engineer Technician 52K+  
Mechanical Engineering Tech 50K+  
Engine/Machine Assembler 47K+  
Electrical Equip. Assembler 47K+  
CNC Operator 46K+  
Aircraft Assembler 42K+  
CAD Technicians 30K+

Certificates  
Basic Mechatronics Technician  
CAD Technician, Drafting  
Assistant, HVAC Technician,  
HVAC Installer, Structural  
Welder, Combination Welder

Degrees  
ASS Drafting/CADD,  
AS Engineering, AAS Welding,  
AS Physics, AAS HVAV,  
AS General Studies