

CAREER FUNNEL

The final section of the report, career funnel, is based on the technique coined by the US Department of Education to group similar occupations and industries. In total, there are 16 Career Clusters in the Framework, representing more than 79 Career Pathways to help students navigate their way to greater success in college and career.

As an organizing tool for curriculum design and instruction, Career Clusters provide the essential knowledge and skills for the 16 Career Clusters and their Career Pathways. It also functions as a useful guide in developing programs of study bridging secondary and postsecondary curriculum and for creating individual student plans of study for a complete range of career options. As such, it helps students discover their interests and their passions, and empowers them to choose the educational pathway that can lead to success in high school, college and career.

According to the detailed analysis, **MANUFACTURING** is your major career cluster. However, there are a few more clusters in which you have shown your inclination and your counselor can guide you on all the other possible options. Jobs in the manufacturing career cluster involve 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 Pathways in Manufacturing

A career pathway is an area of concentration within a career cluster. Each pathway contains a group of careers requiring similar academic and technical skills as well as similar industry certifications or postsecondary education. The manufacturing career cluster has four pathways: precision metal production, precision technology processes, electromechanical installation and maintenance; and production, design, operations, and maintenance.

- **Precision Metal Production:** This field includes a variety of metalworking jobs.
- **Precision Technology Processes:** In this pathway, computers and computer-aided systems are used to design, create, and assemble detailed, high-quality products.
- **Electromechanical Installation and Maintenance:** This field includes all jobs involved with installing, maintaining, and repairing devices that use electricity, from cellular phones to nuclear power generators.
- **Production Design, Operations, and Maintenance:** This pathway includes all of the tasks required to set up and run a manufacturing plant.