



Architecture & Construction Career Cluster



■ Career Field: Industrial, Manufacturing, and Engineering Systems

Nebraska Career Education has identified 6 Career Fields that group 16 Career Clusters into areas of common skill development. The Industrial, Manufacturing, and Engineering Systems Field consists of four clusters: Architecture and Construction; Manufacturing; Science, Technology, Engineering, and Mathematics; and Transportation, Distribution, and Logistics.

■ **Cluster Description:** This diverse Career Cluster prepares learners for careers in designing, planning, managing, building, and maintaining the built environment. People employed in this cluster work on new structures, restorations, additions, alterations, and repairs.

■ Pathway Descriptions

Construction workers literally build our future! These are the people who build and remodel houses, apartments industrial buildings, warehouses, office buildings, churches, schools, and recreational facilities. This pathway also includes the builders of highways, streets, bridges, tunnels, and airports as well as power plants, chemical plants, refineries, and mills.

Design/Pre-Construction workers create our future. They turn a concept into a set of plans. Their plans guide other construction professionals as they continue the building process.

Maintenance Operations workers keep our future intact. These are the people who unload, inspect, and move new equipment into position. They determine the optimal placement of machines in a plant, assemble machinery, install machinery, repair machinery, and perform preventive maintenance. They detect, diagnose, and correct minor problems on machinery. They keep the structure of an establishment in good repair. They maintain the smooth operation of refineries, powerplants, chemical plants, and mills.

For additional Career Cluster Information, visit: www.NebraskaCareerConnections.org.

Career Cluster

Career Pathways

Career Specialty Examples

Cluster Facts

HOT JOBS

- Construction Managers
- First-Line Supervisors/Managers of Construction Trades and Extraction Workers
- Carpenters
- Operating Engineers and Other Construction Equipment Operators
- Electricians
- Painters, Construction and Maintenance
- Plumbers, Pipefitters, and Steamfitters

Related 4-H Projects

- ◆ 4-Wheelin'
- ◆ Aerospace
- ◆ Electricity
- ◆ Home Environment
- ◆ Small Engines
- ◆ Welding
- ◆ Woodworking

Endorsed by the Nebraska Department of Education & Nebraska Career Education