Minnesota Career Fields, Clusters & Pathways

Marketing

- > Merchandising
- > Marketing Management
- > Marketing Communications
- > Marketing Research
- > Professional Sales

Business, Management, and Administration

- > Administrative Support
- > Operations Management
- > Business Information Management
- > Human Resources Management
- > General Management

Hospitality and Tourism

- > Lodging
- > Recreation, Amusements and Attractions
- > Restaurants and Food/Beverage Services
- > Travel and Tourism

Law, Public Safety,

> Correction Services

> Emergency and Fire

> Law Enforcement

Protective Services

Administration

Government and Public

Services

> Legal Services

> Security and

Management Services

Corrections. and Security

Finance

- > Banking Services
- > Business Finance
- > Securities and Investment
- > Accounting
- > Insurance

Agriculture, Food, and Natural Resources > Animal Systems

- > Agribusiness Systems
- > Environmental Service Systems > Food Products and Processing Systems
- > Natural Resources Systems
- > Plant Systems
- > Power, Structural, and Technical Systems

CAREER FIELD

Agriculture, Food, a. Natural Resources

Foundation Knowledge and Skills

Academic and Technical Literacy Teamwork • Career Development Information Technology Application Legal Responsibilities • Communication Safety, Health and Environment Social Studies • Math • Science

Health Science

Technology

CAREER FIELD

> Biotechnology Research and Development

Health Science

> Diagnostic Services

> Health Informatics

> Therapeutic Services

> Support Services

Arts, Audio/Video Technology, and Communications

- > Audio/Video Technology and Film
- > Journalism and Broadcasting
- > Performing Arts
- > Printing Technology
- > Telecommunications
- > Visual Arts

Information Technology

- > Information Support and Services
- > Network Systems
- > Programming and Software Development
- > Web and Digital Communications



Transportation, Distribution, and Logistics

- > Facility and Mobile Equipment Maintenance
- > Health, Safety, and Environmental Management
- > Logistics Planning and Management Services
- > Sales and Services
- > Transportation Operations
- > Transportation Systems/Infrastructure Planning, Management, and Regulation
- > Warehousing and Distribution Center Operations

- > Early Childhood
- > Family and Community

Education and Training

- > Administration and Administrative Support

- and Taxation > Foreign Service > Governance
- > National Security
- > Planning

> Revenue

- > Public Management
- > Regulation

> Counseling and Mental Health Services

Human Services

> Consumer Services

Development and Services

Human Services

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Additional Resources

www.mnpos.com

www.cte.mnscu.edu/programs/index.html

CAREER

- Services
- > Personal Care Services

- > Professional Support Services
- > Teaching/Training

- and Administration

- > Logistics and Inventory Control
- > Health, Safety, and Environmental Assurance

> Quality Assurance

Legend: = Career Cluster

> = Career Pathway

Explanation provided on reverse side.

- Architecture and Manufacturing Construction > Production
- > Construction > Design/
- Pre-construction
- > Maintenance/ Operations
- > Manufacturing
 - Production > Engineering
- Process Development > Maintenance,
 - and Technology Installation, and Repair > Science and Mathematics

Science.

Technology.

Engineering,

and Mathematics

Minnesota Career Fields, Clusters & Pathways Chart Explanation

FOUNDATION KNOWLEDGE AND SKILLS

Foundation Knowledge and Skills, located in the centermost circle of the Minnesota Career Fields, Clusters & Pathways chart, represent the base from which to build work and college readiness.

See Reverse Side



& UNIVERSITIES



The Minnesota State Colleges and Universities system and the Minnesota Department of Education are Equal Opportunity employers and educators.

CAREER FIELDS

Career Fields, which are identified in the segmented ring around Foundation Knowledge and Skills, are the organizing structure for the 16 career clusters and 81 pathways. The fields represent the broadest aggregation of careers. Students are normally exposed to career field exploration in middle school and early high school. Career fields have been identified as:

- Agriculture, Food, & Natural Resources
- Arts, Communications, & Information Systems
- Engineering, Manufacturing, & Technology
- Health Science Technology
- Human Services
- Business, Management, & Administration

CAREER CLUSTERS

Career Clusters, which are identified in the bold, colored bullets (■), represent a grouping of occupations and broad industries into a national classification of 16 clusters that are based upon common knowledge and skills. Career clusters include hundreds of occupations that may be grouped into pathways around which educational programs of study can be built.

- ~ Agriculture, Food, and Natural Resources
- ~ Hospitality and Tourism
- Architecture and Construction
- Human Services
- ~ Arts, Audio/Video Technology and Communications
- ~ Information Technology
- ~ Business, Management, and Administration
- ~ Law, Public Safety, Corrections, and Security
- ➤ Education and Training
- Manufacturing
- Finance
- Marketing
- Government and Public Administration
- ~ Science, Technology, Engineering, and Mathematics
- ➤ Health Science
- ~ Transportation, Distribution, Logistics

CAREER PATHWAYS

Career Pathways, which are identified by the symbol (>) under each cluster heading, represent an organization of related occupational areas within a specific career cluster. Each of these pathways has identified knowledge and skills validated by industry from which programs and programs of study are developed.

Minnesota Programs of Study

The Minnesota Career Fields, Clusters & Pathways chart, on the reverse side, graphically depicts the organizing framework of the foundation knowledge and skills, career fields, career clusters, and career pathways that Minnesota will use for developing programs of study in career and technical education. Once developed, learners at various levels (high school, collegiate, or workforce training level) will then be able to choose from several individual programs within a program of study in order to attain the specific knowledge, skills and abilities needed to pursue a career of their choice.

Programs of study are sets of aligned programs and curricula that begin at the high school level and continue through college and university certificate, diploma and degree programs. The following are some of the key elements that underlie the definition:

- Competency based curricula tied to industry expectations and skill standards;
- Sequential course offerings that provide strategic entry and exit points as needed throughout a lifetime - this leads to manageable "stepping stones" of skill building, high school graduation and postsecondary education completion;

- Flexible course and program formats convenient for learner segments;
- ~ Course portability for seamless progression;
- Multiple entry and exit points to support continuing education, returning adults, and dislocated workers;
- Connections between high school and postsecondary education, skill progression, and career opportunities that align academic credentials with job advancement in high-skill, high-wage or high-demand occupations.