

## CLUSTER PRESENTATION OUTLINE

- I. In today's workforce there are 16 divisions or clusters by which all occupations are identified based on work activities and responsibilities.
- II. Within each of these 16 clusters, are subgroups or pathways that further group the occupations based on similarities of work activities and responsibilities.
- III. The 16 clusters are:
  - A. Agriculture:

Occupations that focus on the production and marketing of commodities and resources such as food and animal products and resources; there are 8 pathways in this cluster

    1. Occupations include forest and conservation worker, animal breeder, veterinarian, and geological and petroleum engineers
  - B. Architecture and Construction:

Occupations involved in the design and building of new structures, and maintenance of existing structures; there are three pathways in this cluster

    1. Occupations include: environmental engineers, architects, construction manager and civil engineers
  - C. Arts, A/V Technology & Communication:

Those involved in the visual and performing arts, including journalists, artists, designers and entertainers; there are five pathways in this cluster

    1. Occupations include: audio and video equipment technician, set and exhibit designer, art director and broadcast news analyst
  - D. Business Management & Administration:

Occupations that focus on developing and maintaining efficient and productive business operations; there are six pathways in this cluster

    1. Occupations include: cost estimator, advertising sales agent, general operations manager and marketing
  - E. Education and Training:

Occupations that provide teaching, instruction and learning support services; there are three pathways in this cluster

    1. Occupations include: training and development manager, education administrator, elementary school teachers and Business teacher, postsecondary
  - F. Finance:

Occupations that focus on investment, banking, insurance and money management; there are four pathways in this cluster

    1. Occupations include: financial analyst, actuary, economist and accountant

G. Government and Public Administration:

Occupations at the local, state and national levels that focus on community planning, national security, taxation and regulations; there are seven pathways in this cluster

1. Occupations include: emergency management specialist, urban and regional planner, tax examiner and postal service mail carrier

H. Health Science:

Those involved in services such as medical care, diagnostic services and biotech research; there are five pathways in this cluster

1. Occupations include: physical therapist, registered nurse, physician and medical scientist

I. Hospitality and Tourism:

Those who operate hotels, restaurants, recreation businesses and travel services; there are four pathways in this cluster.

1. Occupations include: interpreter and translator, concierge, lodging manager and chef and/or head cook

J. Human Services:

Those employed in occupations that relate to counseling, family and community services, personal care and consumer services; there are five pathways in this cluster

1. Occupations include: mental health counselor, social and human services assistant, clergy and marriage and family therapist

K. Information Technology:

Occupations related to the development of technical hardware, software, multimedia and systems services; there are four pathways in this cluster

1. Occupations include: network systems analyst, computer software engineer, computer hardware engineer and electronics engineers

L. Law, Public Safety, Corrections & Security:

Those who provide legal and protective services, including homeland security and technical support; there are five pathways in this cluster

1. Occupations include: paralegal, firefighter, police officer and judge

M. Manufacturing:

Occupations involved in the processing of raw materials into a finished product; there are six pathways in this cluster

1. Occupations include: medical equipment repairer, welder, chemist and engineering manager

N. Marketing

Occupations involved in planning, managing and performing marketing activities to reach organizational objectives; there are seven pathways in this cluster

1. Occupations include: market research analyst, public relations specialist, marketing manager and advertising and promotions manager

O. Science, Technology, Engineering & Mathematics:

Those in research and development of new products, testing, and designing in areas such as aerospace, chemical, electronic and physics; there are two pathways in this cluster

1. Occupations include: solar energy engineer, forensic science technician, physicist and robotics engineer

P. Transportation, Distribution & Logistics:

Occupations that plan and manage the movement of people, materials and goods; there are seven pathways in this cluster

1. Occupations include: airline pilot, aircraft cargo supervisor, storage and distribution manager and ship captain