

Technology | Utilities | Education | Health | Services | Business | Services | Business | Automotive | Manufacturing | Agriculture | Construction | Transportation | Public Safety | Law Enforcement | Corrections | Social Services | Child Welfare | Family Services | Senior Services | Disability Services | Housing | Community Development | Economic Development | Workforce Development

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Career Pathways Workshop

Maricopa County Community College District (MCCCD)

Center for Workforce Development

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Resource Guide

- Your Link to the Community Colleges (handout)
 - We represent 10 community colleges and 2 skill centers
- Offer Workshops
 - Career Pathways
 - Career Search Tools
 - Financial Aid Information
- Assistance with resumes
- Arizona HEAT (Helping Everyone Access Training) contact <http://www.azed.gov/arizonaheat/>




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Career Pathways Workshop

- The Maricopa County Community College District (MCCCD) Career Pathways Workshop is designed to educate customers on the high demand, high skill, high wage industry cluster areas in the Greater Phoenix region and assist them in making informed career decisions.




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Workshop Objectives

- Provide an overview of the growing industries in the Greater Phoenix area
- Review transferable skills within each industry
- Provide sample job titles for each industry, along with industry and local occupational trends
- Educational opportunities for each industry




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Transferable Skills

- Review and complete the transferable skills checklist (handout).




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Industry Clusters

- Architecture and Construction
- Bioscience
- Business Services
- Education
- Health Services
- Information Technology
- Manufacturing
- Public Safety
- Sustainability and Green Technologies
- Transportation, Distribution and Logistics




technology, utilities, education, health, services, business services, business, automotive, manufacturing, construction, information technology, agriculture, food, and other industries
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Architecture and Construction

- **Industry Definition:**
 - Design and erect residential and commercial buildings or infrastructure projects (highways, bridges, and utility systems). Architectural firms apply construction procedures, zoning regulations, build codes, and building materials to the planning and design of structures while construction firms build the projects




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Architecture and Construction

- **Transferable Skills:**
 - Active Listening
 - Coordination
 - Time Management
 - Equipment Selection
 - Reading Comprehension




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Architecture and Construction

- **O*NET In Demand Job Titles:**
 - Architectural Drafters
 - Aerospace Engineers
 - Surveying and Mapping Technicians
 - Brickmasons
 - Blockmasons
 - Electricians
 - Hazardous Materials Removal Workers
 - Plumbers
 - Pipefitters
 - Tile & Marble Setters




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Architecture and Construction

- Industry Trends:
 - Nationwide:
 - Contributes to 9.0 million jobs in the U.S. - 2007
 - Arizona:
 - Projected growth is 3.9% between 2006 and 2016




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Architecture and Construction

- Training Opportunities:
 - Review Industry Flyer for certificates and degrees in the industry




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Bioscience


- Industry Definition:
 - Any of the branches of natural science dealing with the structure and behavior of living organisms. Bioscience is comprised of 5 segments: drugs & pharmaceuticals, agriculture, medical devices & instruments, hospitals & laboratories, and research & testing.



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Bioscience


- Transferable Skills:
 - Near Vision
 - Deductive Reasoning
 - Inductive Reasoning
 - Oral Comprehension



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Bioscience


- O*NET In Demand Job Titles:
 - Biochemist
 - Biophysicists
 - Environmental Science & Protection Technicians
 - Agricultural Technicians
 - Microbiologist
 - Histologist
 - Medical & Clinical Laboratory Technician
 - Medical & Clinical Laboratory Technologists



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Bioscience


- Industry Trends:
 - Nationwide:
 - Contributes to 1.7 million jobs in the U.S. - 2007
 - Arizona:
 - Projected growth is 12.7% between 2006 and 2016



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Bioscience


- Training Opportunities:
 - Review Industry Flyer for certificates and degrees in the industry



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Business Services


- Industry Definition:
 - A broad term encompassing finance, professional services, management of companies, administrative support, hospitality & tourism, and government and public administration



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Business Services


- Transferable Skills:
 - Mathematics
 - Active Listening
 - Critical Thinking
 - Monitoring
 - Judgment and Decision Making



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Education


- Industry Trends:
 - Nationwide:
 - Contributes to 12.2 million jobs in U.S. - 2007
 - Arizona:
 - Projected growth is 14.9% between 2006 and 2016



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Education


- Training Opportunities:
 - Review Industry Flyer for certificates and degrees in the industry



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Health Services


- Industry Definition:
 - Provides medical assistance to individuals. Includes for-profit and non-profit organizations such as hospitals, doctors' offices, nursing homes, and medical laboratories. Also includes social assistance such as family and youth services, meal centers, and housing shelters.



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Health Services


- Transferable Skills:
 - Active Listening
 - Speaking in Public
 - Social Perceptiveness
 - Instructing
 - Reading Comprehension
 - Active Learning
 - Service Orientation



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Health Services

- O*NET In Demand Job Titles:
 - Dental Assistant
 - Medical Assistant
 - Medical Transcriptionist
 - Emergency Medical Technician (EMT) & Paramedic
 - Surgical Technician
 - Pharmacy Technician
 - Physical Therapist
 - Radiological Technicians



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Health Services


- Industry Trends:
 - Nationwide:
 - Contributes to 2.3 million jobs in the U.S. - 2007
 - Arizona:
 - Projected growth is 29.6% between 2006 and 2016



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Health Services


- Training Opportunities:
 - Review Industry Flyer for certificates and degrees in the industry



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Information Technology


- Industry Definition:
 - The study, design, development, implementation, support, or management of computer-based information systems. Deals with the use of electronic computers and computer software to convert, store, protect, process, transmit, and retrieve information. Includes industries such as software publishing, computer programming, computer systems design, and telecommunications.



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Information Technology

- Transferable Skills:
 - Troubleshooting
 - Critical Thinking
 - Active Listening
 - Complex Problem Solving




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Information Technology

- O*NET In Demand Job Titles:
 - Computer Software Engineers
 - Computer Support Specialist
 - Network & Computer System Administrators
 - Computer Systems Analyst
 - Computer Security Specialist



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Information Technology

- Industry Trends:
 - Nationwide:
 - Contributes to 1.6 million jobs in the U.S. - 2007
 - Arizona:
 - Projected growth is 22.4% between 2006 and 2016




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Information Technology

- Training Opportunities:
 - Review Industry Flyer for certificates and degrees in the industry




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Manufacturing

- Industry Definition:
 - The use of machines, tools and labor to make things for use or sale. Manufacturing involves the transformation of raw materials into finished goods, and can range from handcraft to high tech. Finished goods may be used for manufacturing other, more complex products, or sold to wholesalers, retailers, and consumers.




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Manufacturing

- Transferable Skills:
 - Operation and Control
 - Operation Monitoring
 - Mathematics
 - Equipment Selection
 - Troubleshooting
 - Reading Comprehension




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Manufacturing

- O*NET In Demand Job Titles:
 - Welders, Cutters & Welder Fitters
 - Brazers
 - Power Plant Operators
 - Sawing Machine Setters, Operators, and Tenders
 - Stone Cutters & Carvers
 - Molders, Shapers & Casters
 - Glass Blowers



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Manufacturing

- Industry Trends:
 - Nationwide:
 - Contributes to 13.8 million jobs in the U.S. - 2007
 - Arizona:
 - Projected growth is 2.3% between 2006 and 2016



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Manufacturing

- Training Opportunities:
 - Review Industry Flyer for certificates and degrees in the industry
- Contact

Lizette Acosta
Coordinator Marketing & Academic Advisement
Maricopa Community Colleges
(480) 731-8859
Lizette@azhightech.com




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Public Safety


- Industry Definition:
 - Institutions and establishments responsible for the administration of justice, public order and safety activities. This includes: court system, police and fire protection, correctional and parole institutions and investigative and security services.



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Public Safety


- Transferable Skills:
 - Active Listening
 - Coordination
 - Equipment Selection
 - Critical Thinking
 - Service Orientation



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Public Safety


- O*NET In Demand Job Titles:
 - Police Officers
 - Firefighters
 - Court Reporters
 - Park Rangers
 - Emergency Medical Technicians (EMT) and Paramedics
 - Fish & Game



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Public Safety

- Industry Trends:
 - Nationwide:
 - Contributes to 1.9 million jobs in the U.S. - 2007
 - Arizona:
 - Projected growth is 15.0% between 2006 and 2016




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Public Safety

- Training Opportunities:
 - Review Industry Flyer for certificates and degrees in the industry




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Sustainability and Green Technologies

- Industry Definition:
 - The design and transformation of products and processes to have a lighter impact on the environment. Done for the purposes of environmental sustainability, job creation, national security, and moral obligation. Four main areas include renewable energy, construction/building, transportation, and environmental services.




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Sustainability and Green Technologies

- Transferable Skills:
 - Active Listening
 - Reading Comprehension
 - Critical Thinking
 - Complex Problem Solving
 - Judgment and Decision Making
 - Coordination
 - Instructing
 - Speaking
 - Time Management
 - Troubleshooting




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Sustainability and Green Technologies

- O*NET In Demand Job Titles:
 - Biological Technicians
 - Industrial Engineering Technicians
 - Electrical and Electronic Engineering Technicians
 - Surveying and Mapping Technicians
 - Plumbers
 - Electricians
 - Electrical Power Line Installers and Repairers
 - Power Plant Operators
 - Industrial Machinery Mechanics



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Sustainability and Green Technologies

- Industry Trends:
 - Nationwide:
 - Will contribute 3.7% overall growth between 1998-2007
 - Arizona:
 - 16.2% projected overall growth between 1998-2007

Source: The Pew Charitable Trusts, 2009




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Sustainability and Green Technologies

- Training Opportunities:
 - Review Industry Flyer for certificates and degrees in the industry




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Maricopa Community Colleges

- College/Skill Center Information (handout)
- Financial Aid Information (handout)



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Arizona Workforce Connection

- One-Stop Career Centers (handout)
 - Phoenix Workforce Connection
 - Maricopa Workforce Connections

Workshop - Industry Trend Data Sources
 Nationwide: Minnesota PLAN/U.S. Bureau of Labor
 Arizona: Arizona Department of Commerce




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Questions and Evaluations



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