# Career Pathway Map: Accounting

# Statewide

Information contained in this career pathways map encompasses the entire state of Pennsylvania. The information contains projections of anticipated openings, entry level salary, and job growth. Actual career pathways may look different depending on the individual and the local area job market.

#### Career Pathways programs provide:

- -workplace skills instruction
- -GED® Tests preparation
- -academic skills specific to the industry
- -entrance exam preparation
- -postsecondary transition preparation
- -English language skills instruction
- -goal setting/case management support
- -provide employability/soft skills instruction

#### Postsecondary education and training available through:

Local Career and Technology Centers

Local Business Schools

Local Technical Schools

**Local Community Colleges** 

Local Universities

#### **Accountants and Auditors**

SOC Code 13-2011

Entry Level Salary \$42,340

**Projected Annual Openings 1,256** 

Bachelor's degree

Certifications: Certified Public Accountant (CPA)

## **Bookkeeping, Accounting, Auditing Clerks**

SOC Code 43-3031

Entry Level Salary \$23,630

**Projected Annual Openings 1,491** 

Usually requires technical training, on the job experience, or an Associate's degree

#### Billing, Cost, and Rate Clerks

SOC Code 43-3021

Entry Level Salary \$24,530

**Projected Annual Openings 304** 

Usually requires technical training, on the job experience, or an Associate's degree

#### **Shipping Receiving and Traffic Clerks**

SOC Code 43-5071

Entry Level Salary \$22,790

**Projected Annual Openings 696** 

Usually requires High School Diploma/Commonwealth Secondary School Diploma/GED®

#### **Order Clerks**

SOC Code 43-4151

Entry Level Salary \$19,620

**Projected Annual Openings 266** 

Usually requires High School Diploma/Commonwealth Secondary School Diploma/GED®

Accounting Career Pathway (Hardy, Institute for the Study of Adult Literacy, 2013)

Sources of Information:

-Pennsylvania Department of Labor & Industry, Center for Worldorce Information and Analysis. (2013). Labor Market Information System. Retrieved from https://paworkstats.geosolinc.com

-U.S. Department of Labor, Employment and Training Administration. (2013). O'Net Online. Retrieved from http://www.onetonline.org

# Career Pathway Map: Computer Support

# Statewide

Information contained in this career pathways map encompasses the entire state of Pennsylvania. The information contains projections of anticipated openings, entry level salary, and job growth. Actual career pathways may look different depending on the individual and the local area job market.

#### Career Pathways programs provide:

- -workplace skills instruction
- -GED® Tests preparation
- -academic skills specific to the industry
- -entrance exam preparation
- -postsecondary transition preparation
- -English language skills instruction
- -goal setting/case management support
- -provide employability/soft skills instruction

#### Postsecondary education and training available through:

Local Career and Technology Centers

**Local Business Schools** 

Local Technical Schools

**Local Community Colleges** 

Local Universities

# **Computer Systems Analysts**

SOC Code 15-1121

Entry Level Salary \$55,542

**Projected Annual Openings 929** 

Usually requires technical training, on the job experience, or an Associate's degree

# **Network and Computer Systems Administrator**

SOC Code 15-1121

Entry Level Salary \$51,542

**Projected Annual Openings 530** 

Usually requires technical training, on the job experience, or an Associate's degree

#### **Database Administrators**

SOC Code 15-1141

Entry Level Salary \$50,861

**Projected Annual Openings 113** 

Usually requires technical training, on the job experience, or an Associate's degree

# **Computer User Support Specialist**

SOC Code 15-1150

Entry Level Salary \$25,354

**Projected Annual Openings 744** 

Usually requires High School Diploma/Commonwealth Secondary School Diploma/GED®

**Computer Support Career Pathway** 

(Hardy, Institute for the Study of Adult Literacy, 2013)

Sources or information:

Pennsylvania Department of Labor & Industry, Center for Workforce Information and Analysis. (2013). Labor Market Information System. Retrieved from <a href="https://joaworfsstats.geosolinc.com">https://joaworfsstats.geosolinc.com</a>

1. U.S. Department of Labor, Employment and Training Administration. (2013). O'Net Online. Retrieved from: <a href="http://www.onetonfline.org">http://www.onetonfline.org</a>

# Career Pathway Map: Customer Service

# Statewide

Information contained in this career pathways map encompasses the state of Pennsylvania. The information contains projections of anticipated openings and entry level salary. Actual career pathways may look different depending on the individual and the local area job market.

#### Career Pathways programs provide:

- -workplace skills instruction
- -GED® Tests preparation
- -academic skills specific to the industry
- -entrance exam preparation
- -postsecondary transition preparation
- -English language skills instruction
- -goal setting/case management support
- -provide employability/soft skills instruction

#### Postsecondary education and training available through:

Local Career and Technology Centers

Local Business Schools

Local Technical Schools

Local Community Colleges

Local Universities

# **General and Operations Managers**

SOC Code 11-1021

Entry Level Salary \$55,810

**Projected Annual Openings 967** 

Usually requires technical training, on the job experience, or an Associate's degree

#### **Cost Estimators**

SOC Code 13-1051

Entry Level Salary \$39,050

**Projected Annual Openings 304** 

Usually requires technical training, on the job experience, or an Associate's degree; Some require Bachelor's degree

# **Customer Service Representatives**

SOC Code 43-4051

Entry Level Salary \$22,520

**Projected Annual Openings 3,949** 

Usually requires High School Diploma/Commonwealth Secondary School Diploma/GED®

**Customer Service Career Pathway** 

(Hardy, Institute for the Study of Adult Literacy, 2013)

#### Sources of Information:

Sources of midmators.

- Pennsylvania Department of Labor & Industry, Center for Workforce Information and Analysis. (2013). Labor Market Information System. Retrieved fromhttps://paworkstats.geosolinc.com
- U.S. Department of Labor, Employment and Training Administration. (2013). O'Net Online. Retrieved from: http://www.onetonline.org

# Career Pathway Map: Dental Support

# Statewide

Information contained in this career pathways map encompasses the entire state of Pennsylvania. The information contains projections of anticipated openings, entry level salary, and job growth. Actual career pathways may look different depending on the individual and the local area job market.

#### Career Pathways programs provide:

- -workplace skills instruction
- -GED® Tests preparation
- -academic skills specific to the industry
- -entrance exam preparation
- -postsecondary transition preparation
- -English language skills instruction
- -goal setting/case management support
- -provide employability/soft skills instruction

#### Postsecondary education and training available through:

Local Career and Technology Centers

Local Business Schools

Local Technical Schools

Local Community Colleges

Local Universities

## **Dental Hygienists**

SOC Code 29-2021

Entry Level Salary \$46,110

**Projected Annual Openings 261** 

Usually requires technical training, on the job experience, or an Associate's degree

#### **Dental Assistants**

SOC Code 31-9081

Entry Level Salary \$23,490

**Projected Annual Openings 380** 

Usually requires High School Diploma/Commonwealth Secondary School Diploma/GED®

# **Healthcare Support Workers**

SOC Code 31-9099

**Entry Level Salary N/A** 

**Projected Annual Openings 130** 

Usually requires High School Diploma/Commonwealth Secondary School Diploma/GED®

**Dental Support Career Pathway**  (Hardy, Institute for the Study of Adult Literacy, 2013)

Sources of Information:

Sources of information:

-Pennsylvania Department of Labor & Industry, Center for Workforce Information and Analysis. (2013). Labor Market Information System. Retrieved from <a href="https://paworkstats.geosolinc.com">https://paworkstats.geosolinc.com</a>
-U.S. Department of Labor, Employment and Training Administration. (2013). O'Net Online. Retrieved from:

# Career Pathway Map: Electrical Drafters

# Statewide

Information contained in this career pathways map encompasses the entire state of Pennsylvania. The information contains projections of anticipated openings, entry level salary, and job growth. Actual career pathways may look different depending on the individual and the local area job market.

#### Career Pathways programs provide:

- -workplace skills instruction
- -GED® Tests preparation
- -academic skills specific to the industry
- -entrance exam preparation
- -postsecondary transition preparation
- -English language skills instruction
- -goal setting/case management support
- -provide employability/soft skills instruction

#### Postsecondary education and training available through:

Local Career and Technology Centers

Local Business Schools

Local Technical Schools

Local Community Colleges

Local Universities

American Design Drafting Association (ADDA)

#### **Mechanical Drafters**

SOC Code 17-3013

Entry Level Salary \$32,290

**Projected Annual Openings 118** 

Usually requires technical training, on the job experience, or an Associate's degree

Certifications: ADDA Drafter Certification, Mechanical Drafting Certificate

#### **Electrical & Electronic Drafters**

SOC Code 17-3012

Entry Level Salary \$37,950

**Projected Annual Openings 36** 

Usually requires technical training, on the job experience, or an Associate's degree

Certifications: ADDA Drafter Certification, Electrical Drafting Certificate

# **Helpers - Electricians**

SOC Code 47-3013

Entry Level Salary \$21,640

**Projected Annual Openings 56** 

Usually requires High School Diploma/Commonwealth Secondary School Diploma/GED®

# **Electrical Drafters Career Pathway**

(Hardy, Institute for the Study of Adult Literacy, 2013)

Sources of Information:
-Pennsylvania Department of Labor & Industry, Center for Workforce Information and Analysis. (2013). Labor Market Information System. Retrieved from <a href="https://paworkstats.geosolinc.com">https://paworkstats.geosolinc.com</a>-U.S. Department of Labor, Employment and Training Administration. (2013). O'Net Online. Retrieved from: <a href="https://www.onetonline.org">http://www.onetonline.org</a>

# Career Pathway Map: Electricians

# Statewide

Information contained in this career pathways map encompasses the entire state of Pennsylvania. The information contains projections of anticipated openings, entry level salary, and job growth. Actual career pathways may look different depending on the individual and the local area job market.

#### Career Pathways programs provide:

- -workplace skills instruction
- -GED® Tests preparation
- -academic skills specific to the industry
- -entrance exam preparation
- -postsecondary transition preparation
- -English language skills instruction
- -goal setting/case management support
- -provide employability/soft skills instruction

#### Postsecondary education and training available through:

Local Career and Technology Centers

Local Business Schools

Local Technical Schools

Local Community Colleges

Local Universities

# Supervisors of Mechanics, Installers & Repairers

SOC Code 49-1011

Entry Level Salary \$45,390

**Projected Annual Openings 350** 

Usually requires technical training, on the job experience, or an Associate's degree

# **Electrical and Electronics Installers & Repairers, Transportation Equipment**

SOC Code 49-2093

Entry Level Salary \$33,070

**Projected Annual Openings 7** 

Usually requires technical training, on the job experience, or an Associate's degree

#### **Electricians**

SOC Code 47-2111

Entry Level Salary \$35,570

**Projected Annual Openings 679** 

Usually requires technical training, on the job experience, or an Associate's degree

# **Helpers - Installation, Maintenance & Repair Workers**

SOC Code 49-9098

Entry Level Salary \$17,810

**Projected Annual Openings 163** 

Usually requires High School Diploma/Commonwealth Secondary School Diploma/GED®

# Electricians Career Pathway

(Hardy, Institute for the Study of Adult Literacy, 2013)

#### Sources of Information:

# **Career Pathway Map:** Refrigeration, Heating, Ventilation, and Air Conditioning (RHVAC) Statewide

Information contained in this career pathways map encompasses the entire state of Pennsylvania. The information contains projections of anticipated openings, entry level salary, and job growth. Actual career pathways may look different depending on the individual and the local area job market.

#### Career Pathways programs provide:

- -workplace skills instruction
- -GED® Tests preparation
- -academic skills specific to the industry
- -entrance exam preparation
- -postsecondary transition preparation
- -English language skills instruction
- -goal setting/case management support
- -provide employability/soft skills instruction

#### Postsecondary education and training available through:

Local Career and Technology Centers

Local Business Schools

Local Technical Schools

Local Community Colleges

Local Universities

North American Technician Excellence (NATE)

# **Supervisors Mechanics, Installers and Repairers**

SOC Code 49-1011

Entry Level Salary \$45,390

**Projected Annual Openings 350** 

Usually requires technical training, on the job experience, or an Associate's degree

#### **Sheet Metal Workers**

SOC Code 47-2211

Entry Level Salary \$31,120

**Projected Annual Openings 137** 

Usually requires technical training, on the job experience, or an Associate's degree

# Heating, Air Conditioning, and Refrigeration Mechanics and Installers

SOC Code 49-9021

Entry Level Salary \$30,570

**Projected Annual Openings 286** 

Usually requires technical training, on the job experience, or an Associate's degree

Certifications: RHVAC Certification

# **Maintenance and Repair Workers**

SOC Code 49-9071

Entry Level Salary \$21,840

**Projected Annual Openings 217** 

Usually requires High School Diploma/Commonwealth Secondary School Diploma/GED®

# RHVAC Career Pathway

(Hardy, Institute for the Study of Adult Literacy, 2013)

#### Sources of Information:

Genesia of Indimanderia.

- Pennsylvania Department of Labor & Industry, Center for Workforce Information and Analysis. (2013). Labor Market Information System. Retrieved from https://paworkstats.geosolinc.com
- U.S. Department of Labor, Employment and Training Administration. (2013). O'Net Online. Retrieved from: http://www.onetonline.org

# Career Pathway Map: Office Workers

# Statewide

Information contained in this career pathways map encompasses the entire state of Pennsylvania. The information contains projections of anticipated openings, entry level salary, and job growth. Actual career pathways may look different depending on the individual and the local area job market.

#### Career Pathways programs provide:

- -workplace skills instruction
- -GED® Tests preparation
- -academic skills specific to the industry
- -entrance exam preparation
- -postsecondary transition preparation
- -English language skills instruction
- -goal setting/case management support
- -provide employability/soft skills instruction

#### Postsecondary education and training available through:

Local Career and Technology Centers

Local Business Schools

Local Technical Schools

Local Community Colleges

Local Universities

# **Supervisors of Office and Administrative Support Workers**

SOC Code 43-1011

Entry Level Salary \$34,630

**Projected Annual Openings 1,069** 

Usually requires technical training, on the job experience, or an Associate's degree

# **Executive Secretaries and Administrative Assistants**

SOC Code 43-6011

Entry Level Salary \$33,560

**Projected Annual Openings 776** 

Usually requires technical training, on the job experience, or an Associate's degree

#### **Secretaries and Administrative Assistants**

SOC Code 43-6014

Entry Level Salary \$22,160

**Projected Annual Openings 1,498** 

Usually requires technical training, on the job experience, or an Associate's degree

#### Office Clerks

SOC Code 43-9061

Entry Level Salary \$19,200

**Projected Annual Openings 3,261** 

Usually requires High School Diploma/Commonwealth Secondary School Diploma/GED®

Office Workers **Career Pathway**  (Hardy, Institute for the Study of Adult Literacy, 2013)

Pennsylvania Department of Labor & Industry, Center for Worldorce Information and Analysis. (2013). Labor Market Information System. Retrieved fromhttps://paworkstats.geosolinc.com
-U.S. Department of Labor, Employment and Training Administration. (2013). O"Net Online. Retrieved from: http://www.onetonline.org

# Career Pathway Map: Pharmacy Technicians

# Statewide

Information contained in this career pathways map encompasses the entire state of Pennsylvania. The information contains projections of anticipated openings, entry level salary, and job growth. Actual career pathways may look different depending on the individual and the local area job market.

#### Career Pathways programs provide:

- -workplace skills instruction
- -GED® Tests preparation
- -academic skills specific to the industry
- -entrance exam preparation
- -postsecondary transition preparation
- -English language skills instruction
- -goal setting/case management support
- -provide employability/soft skills instruction

#### Postsecondary education and training available through:

Local Career and Technology Centers

Local Business Schools

Local Technical Schools

Local Community Colleges

Local Universities

#### **Pharmacists**

SOC Code 29-1051

Entry Level Salary \$84,230

**Projected Annual Openings 418** 

Most of these occupations require graduate school. For example, they may require a master's degree, and some require a Ph.D., M.D., or J.D. (law degree)

# **Pharmacy Technicians**

SOC Code 29-2052

Entry Level Salary \$20,190

**Projected Annual Openings 907** 

Usually requires technical training, on the job experience, or an Associate's degree

# **Pharmacy Aides**

SOC Code 31-9095

Entry Level Salary \$16,800

**Projected Annual Openings 22** 

Usually requires High School Diploma/Commonwealth Secondary School Diploma/GED®

Pharmacy Technicians
Career Pathway

(Hardy, Institute for the Study of Adult Literacy, 2013)

Sources of Information:

Pennsylvania Department of Labor & Industry, Center for Workforce Information and Analysis. (2013). Labor Market Information System. Retrieved from <a href="https://paworkstats.geosolinc.com">https://paworkstats.geosolinc.com</a>
-U.S. Department of Labor, Employment and Training Administration. (2013). O'Net Online. Retrieved from: <a href="http://www.pengoline.org">http://www.pengoline.org</a>

# Career Pathway Map: Plumbing (Energy)

# Statewide

Information contained in this career pathways map encompasses the entire state of Pennsylvania. The information contains projections of anticipated openings, entry level salary, and job growth. Actual career pathways may look different depending on the individual and the local area job market.

#### Career Pathways programs provide:

- -workplace skills instruction
- -GED® Tests preparation
- -academic skills specific to the industry
- -entrance exam preparation
- -postsecondary transition preparation
- -English language skills instruction
- -goal setting/case management support
- -provide employability/soft skills instruction

#### Postsecondary education and training available through:

Local Career and Technology Centers

Local Business Schools

Local Technical Schools

Local Community Colleges

Local Universities

North American Board of Certified Energy Practitioners ( NABCEP) American Society of Plumbing Engineers (ASPE)

# **Solar Energy Installation Managers**

SOC Code 47-1011

Entry Level Salary \$44,010

**Projected Annual Openings 329** 

Usually requires technical training, on the job experience, or an Associate's degree

#### Solar Photovoltaic Installers

SOC Code 47-2231

Entry Level Salary N/A

Projected Annual Openings N/A

Usually requires technical training, on the job experience, or an Associate's degree

Certifications: Solar Photovoltaic Installation Certificate

#### Solar Thermal Installers and Technicians

SOC Code 47-4099

Entry Level Salary N/A

Projected Annual Openings N/A

Usually requires technical training, on the job experience, or an Associate's degree

#### **Plumbers**

SOC Code 47-2152

Entry Level Salary \$34,510

**Projected Annual Openings 348** 

Usually requires technical training, on the job experience, or an Associate's degree

Certifications: Plumbing Design Certificate

#### Helpers - Pipelayers, Plumbers, Pipefitters and Steam Fitters

SOC Code 47-3015

Entry Level Salary \$18,930

**Projected Annual Openings 58** 

Usually requires High School Diploma/Commonwealth Secondary School Diploma/GED®

# **Plumbing Career Pathway**

(Hardy, Institute for the Study of Adult Literacy, 2013)

Sources of Information:

-Pennsylvania Department of Labor & Industry, Center for Worldorce Information and Analysis. (2013). Labor Market Information System. Retrieved from https://paworkstats.gecoslinc.com

-U.S. Department of Labor, Employment and Training Administration. (2013). O'Net Online. Retrieved from: http://www.onetonline.org

# Career Pathway Map: Computer Programmers

# Statewide

Information contained in this career pathways map encompasses the entire state of Pennsylvania. The information contains projections of anticipated openings, entry level salary, and job growth. Actual career pathways may look different depending on the individual and the local area job market.

#### Career Pathways programs provide:

- -workplace skills instruction
- -GED® Tests preparation
- -academic skills specific to the industry
- -entrance exam preparation
- -postsecondary transition preparation
- -English language skills instruction
- -goal setting/case management support
- -provide employability/soft skills instruction

#### Postsecondary education and training available through:

Local Career and Technology Centers

Local Business Schools

Local Technical Schools

Local Community Colleges

Local Universities

## **Computer and Information Systems Managers**

SOC Code 11-3021

Entry Level Salary \$77,370

**Projected Annual Openings 184** 

Usually requires technical training, on the job experience, or an Associate's degree

Most of these occupations require a four-year Bachelor's degree

# Software Developers, Systems Software

SOC Code 15-1133

Entry Level Salary \$62,515

**Projected Annual Openings 293** 

Usually requires technical training, on the job experience, or an Associate's degree

Most of these occupations require a four-year Bachelor's degree

# **Software Developers, Applications Systems**

SOC Code 15-1132

Entry Level Salary \$59,040

**Projected Annual Openings 530** 

Usually requires technical training, on the job experience, or an Associate's degree

Some require a four-year Bachelor's degree

#### **Computer Programmers**

SOC Code 15-1131

Entry Level Salary \$54,183

**Projected Annual Openings 422** 

Usually requires technical training, on the job experience, or an Associate's degree

# Web Developers

SOC Code 15-1134

Entry Level Salary \$51,075

**Projected Annual Openings 146** 

Usually requires technical training, on the job experience, or an Associate's degree

## **Computer Programmers Career Pathway**

(Hardy, Institute for the Study of Adult Literacy, 2013)

Pennsylvania Department of Labor & Industry, Center for Worldorce Information and Analysis. (2013). Labor Market Information System. Retrieved from <a href="https://paworfstais.geospilic.com">https://paworfstais.geospilic.com</a> 1.05. Department of Labor, Employment and Training Administration. (2013). O'Net Online. Retrieved from:

# Career Pathway Map: Sales

# Statewide

Information contained in this career pathways map encompasses the entire state of Pennsylvania. The information contains projections of anticipated openings, entry level salary, and job growth. Actual career pathways may look different depending on the individual and the local area job market.

#### Career Pathways programs provide:

- -workplace skills instruction
- -GED® Tests preparation
- -academic skills specific to the industry
- -entrance exam preparation
- -postsecondary transition preparation
- -English language skills instruction
- -goal setting/case management support
- -provide employability/soft skills instruction

#### Postsecondary education and training available through:

Local Career and Technology Centers

Local Business Schools

Local Technical Schools

Local Community Colleges

Local Universities

# **Sales Managers**

SOC Code 11-2022

Entry Level Salary \$61,060

**Projected Annual Openings 228** 

Most require Bachelor's degree

# Sales Representatives, Wholesale and Manufacturing

SOC Code 41-4012

Entry Level Salary \$35,610

**Projected Annual Openings 2,007** 

Some require Bachelor's degree

#### Order Fillers, Wholesale and Retail Sales

SOC Code 43-5081

Entry Level Salary \$16,990

**Projected Annual Openings 1,704** 

Usually requires High School Diploma/Commonwealth Secondary School Diploma/GED®

# **Customer Service Representatives**

SOC Code 43-4051

Entry Level Salary \$22,520

**Projected Annual Openings 3,949** 

Usually requires High School Diploma/Commonwealth Secondary School Diploma/GED®

Sales **Career Pathway**  (Hardy, Institute for the Study of Adult Literacy, 2013)

Sources of Information:
-Pennsylvania Department of Labor & Industry, Center for Workforce Information and Analysis. (2013). Labor Market Information System. Retrieved fromhttps://paworkstats.geosolinc.com
-U.S. Department of Labor, Employment and Training Administration. (2013). O'Net Online. Retrieved from: http://www.norstonline.org

# Career Pathway Map: Surveyors

# Statewide

Information contained in this career pathways map encompasses the entire state of Pennsylvania. The information contains projections of anticipated openings, entry level salary, and job growth. Actual career pathways may look different depending on the individual and the local area job market.

#### Career Pathways programs provide:

- -workplace skills instruction
- -GED® Tests preparation
- -academic skills specific to the industry
- -entrance exam preparation
- -postsecondary transition preparation
- -English language skills instruction
- -goal setting/case management support
- -provide employability/soft skills instruction

#### Postsecondary education and training available through:

Local Career and Technology Centers

Local Business Schools

Local Technical Schools

Local Community Colleges

Local Universities

# **Architectural and Engineering Managers**

SOC Code 11-9041

Entry Level Salary \$83,330

**Projected Annual Openings 112** 

Master's degree

# **Environmental Engineers**

SOC Code 17-2081

Entry Level Salary \$54,470

**Projected Annual Openings 114** 

Master's degree

#### Surveyors

SOC Code 17-1022

Entry Level Salary \$35,070

**Projected Annual Openings 83** 

Bachelor's degree

# **Surveying & Mapping Technicians**

SOC Code 17-3031

Entry Level Salary \$27,760

**Projected Annual Openings 40** 

Usually requires technical training, on the job experience, or an Associate's degree

Surveyors **Career Pathway**  (Hardy, Institute for the Study of Adult Literacy, 2013)

Sources of Information:

-Pennsylvania Department of Labor & Industry, Center for Workforce Information and Analysis. (2013). Labor Market Information System. Retrieved fromhttps://paworkstats.geosolinc.com

-U.S. Department of Labor, Employment and Training Administration. (2013). O'Net Online. Retrieved from: http://www.onetonline.org