# After Energy: One-Year Certificate Programs Outside of the Energy Industry with High Earnings

## Appendix Tables

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# After Energy: One-Year Certificate Programs Outside of the Energy Industry with High Earnings Appendix Tables

## Who We Are

Research & Planning (R&P) functions as an exclusively statistical entity within the Wyoming Department of Workforce Services. R&P collects, analyzes, and publishes timely and accurate labor market information (LMI) meeting established statistical standards. We work to make the labor market more efficient by providing the public and the public's representatives with the information needed for evidence-based, informed decision making.

**Appendix Table 1: Number of 2006-2016 Graduates from One-Year Certificate Programs from Wyoming Community Colleges who Earned Wages Outside Direct Employment in the Oil & Gas Industry (NAICS[a] 21)**

| CIP[b] Code | CIP Title | N | 3 Years Before | 1 Year After | 2 Years After | 3 Years After |
|---|---|---|---|---|---|---|
| | | | Year Relative to Graduation | | | |
| 904 | Journalism | 12 | 12 | 11 | 10 | 10 |
| 1102 | Computer Programming | 7 | 6 | 7 | 5 | 5 |
| 1108 | Computer Software & Media Applications | 34 | 23 | 24 | 22 | 20 |
| 1312 | Teacher Education & Professional Development, Specific Levels & Methods | 11 | 8 | 9 | 8 | 8 |
| 1513 | Drafting/Design Engineering Technologies/ Technicians | 15 | 10 | 6 | N/D | N/D |
| 2203 | Legal Support Services | 15 | 10 | 14 | 11 | 9 |
| 4103 | Physical Science Technologies/Technicians | 101 | 77 | 79 | 39 | 13 |
| 4302 | Fire Protection | 21 | 18 | 17 | 16 | 17 |
| 4399 | Homeland Security, Law Enforcement, Firefighting & Related Protective Services, Other | 9 | 8 | 7 | 7 | 6 |
| 5107 | Health & Medical Administrative Services | 61 | 46 | 43 | 31 | 28 |
| 5108 | Allied Health & Medical Assisting Services | 27 | 17 | 13 | N/D | N/D |
| 5109 | Allied Health Diagnostic, Intervention, & Treatment Professions | 206 | 72 | 103 | 81 | 68 |
| 5110 | Clinical/Medical Laboratory Science/Research & Allied Professions | 51 | 38 | 32 | 29 | 23 |
| 5115 | Mental & Social Health Services & Allied Professions | 15 | 12 | 11 | 12 | 10 |
| 5139 | Practical Nursing, Vocational Nursing & Nursing Assistants | 397 | 299 | 236 | 178 | 157 |
| 5203 | Accounting & Related Services | 22 | 18 | 14 | 11 | 6 |
| | All Other | 2,011 | 1,247 | 1,241 | 948 | 786 |
| **0000** | **Total, All Occupational 1 Year** | **3,015** | **1,921** | **1,867** | **1,416** | **1,169** |

[a]North American Industry Classification System.

[b]Classification of Instructional Programs Code.

N/D = Not discloseable due to confidentiality.

Source: Custom Extract from WDQI Database.

Prepared by K. Faler, Research & Planning, WY DWS, 6/6/17.

**Appendix Table 2: Wyoming Quarterly Turnover Rate by Industry, 2016Q4**

| NAICS[a] Code | Industry | Turnover Rate |
|---|---|---|
| 11 | Agriculture, Forestry, Fishing, & Hunting | 32.6% |
| 21 | Mining | 17.7% |
| 23 | Construction | 38.5% |
| 31, 32, 33 | Manufacturing | 18.4% |
| 42, 48, 49, 22 | Wholesale Trade, Transportation, Utilities, & Warehousing | 20.5% |
| 44, 45 | Retail Trade | 31.2% |
| 51 | Information | 17.3% |
| 52, 53 | Financial Activities | 18.1% |
| 54, 55 | Professional & Business Services | 37.3% |
| 61 | Educational Services | 16.2% |
| 62 | Health Services | 20.7% |
| 71, 72 | Leisure & Hospitality | 47.7% |
| 81 | Other Services | 26.5% |
| 92 | Public Administration | 14.0% |
| | Unclassified | 89.1% |
| | **Total** | **27.8%** |

[a]North American Industry Classification System.
Source: Research & Planning, Wyoming Department of Workforce Services. (2016). Wyoming Turnover by Year and Quarter, 1992Q1 to 2016Q4.
Prepared by M. Moore, Research & Planning, WY DWS, 8/15/17.

**Appendix Table 3: Industry Demographics, Wages, and Number of Employers for Individuals Working in Wyoming at Any Time by Industry, 2015**

| NAICS[a] Code | Industry | % of Workers Younger than 35 | Average Annual Wage | Average Number of Employers |
|---|---|---|---|---|
| 11 | Agriculture, Forestry, Fishing, & Hunting | 31.0 | $23,367 | 1.21 |
| 21 | Mining | 29.1 | $69,155 | 1.25 |
| 23 | Construction | 25.3 | $30,398 | 1.34 |
| 31, 32, 33 | Manufacturing | 30.7 | $50,422 | 1.28 |
| 42, 48, 49, 22 | Wholesale Trade, Transportation, Utilities, & Warehousing | 27.8 | $49,221 | 1.29 |
| 44, 45 | Retail Trade | 42.9 | $21,287 | 1.44 |
| 51 | Information | 34.6 | $39,041 | 1.32 |
| 52, 53 | Financial Activities | 30.8 | $44,773 | 1.33 |
| 54, 55 | Professional & Business Services | 30.4 | $36,958 | 1.37 |
| 61 | Educational Services | 25.7 | $36,082 | 1.23 |
| 62 | Health Services | 35.6 | $40,285 | 1.39 |
| 71, 72 | Leisure & Hospitality | 42.7 | $12,204 | 1.52 |
| 81 | Other Services | 35.0 | $28,954 | 1.35 |
| 92 | Public Administration | 27.2 | $37,066 | 1.26 |
| | **Total, All Industries** | **32.8** | **$34,849** | **1.35** |

[a]North American Industry Classification System.
Source: Employment and Earnings by Industry, County, Age, & Gender, 2000-2015. Research & Planning, Wyoming Department of Workforce Services.
Prepared by K. Faler, Research & Planning, WY DWS, 6/6/17.

**Appendix Table 4: Related Community College Programs**

| CIP[a] Code | College | CIP Title | Link |
|---|---|---|---|
| 0904 | WWCC | Journalism | http://westernwyoming.smartcatalogiq.com/Current/Catalog/Programs-of-Study/Humanities/Journalism-Certificate.aspx |
| 1102 | LCCC | Computer Programming/ Programmer, General | http://www.lccc.wy.edu/programs/computerInformationSystems/ computerTechnician/curriculum.aspx http://www.lccc.wy.edu/programs/computerInformationSystems/ computerSupportSpecialist/curriculum.aspx http://www.lccc.wy.edu/programs/computerInformationSystems/ microsoft/curriculum.aspx |
| 1108 | EWC | Web Page, Digital/Multimedia & Information Resources Design | https://ewc.wy.edu/academic-services/majors/accounting-and-business/ computer-applications-certificate/ |
| 1108 | LCCC | Web Page, Digital/Multimedia & Information Resources Design | http://www.lccc.wy.edu/programs/computerInformationSystems/ webDesign/index.aspx |
| 1108 | WWCC | Web Page, Digital/Multimedia & Information Resources Design | http://westernwyoming.smartcatalogiq.com/en/Current/Catalog/ Programs-of-Study/Business/Computer-Science/Digital-Design-Technologies-Certificate http://westernwyoming.smartcatalogiq.com/en/Current/Catalog/ Programs-of-Study/Business/Computer-Science/Web-Site-Development-Certificate |
| 1312 | EWC | Early Childhood Education & Teaching | https://ewc.wy.edu/academic-services/majors/education/child-development-certificate/ |
| 1312 | NWC | Kindergarten/Preschool Education & Teaching | https://nwc.edu/sites/education/programs/program.html?id=163884 |
| 1312 | NWCCD | Early Childhood Education & Teaching | http://catalog.sheridan.edu/preview_program.php?catoid=11&poid=1462&returnto=338 |
| 1513 | LCCC | Drafting & Design Technology/ Technician, General | http://www.lccc.wy.edu/programs/engineeringtechnology/index.aspx |
| 1513 | NWC | CAD/CADD Drafting &/or Design Technology/Technician | http://catalog.nwc.edu/preview_program.php?catoid=7&poid=888&returnto=1064 |
| 1513 | NWCCD | CAD/CADD Drafting &/or Design Technology/Technician | http://www.sheridan.edu/academics/program/computer-aided-design/ |
| 1513 | NWCCD | CAD/CADD Drafting &/or Design Technology/Technician | http://www.sheridan.edu/academics/program/computer-aided-design/ |
| 2203 | CC | Legal Assistant/Paralegal | http://catalog.caspercollege.edu/preview_program.php?catoid=10&poid=3140&returnto=4251 |
| 2203 | LCCC | Legal Assistant/Paralegal | http://www.lccc.wy.edu/programs/paralegal/curriculum.aspx#certificate |
| 4103 | LCCC | Chemical Process Technology | http://www.lccc.wy.edu/programs/process-technology/curriculum.aspx |
| 4302 | CC | Fire Science/Fire-fighting | http://catalog.caspercollege.edu/preview_program.php?catoid=10&poid=3097&returnto=4251 |
| 4302 | CWC | Fire Science/Fire-fighting | http://www.cwc.edu/programs/vocational/fire-science/ |
| 4399 | LCCC | Homeland Security, Law Enforcement, Firefighting & Related Protective Services, Other | http://www.lccc.wy.edu/programs/homelandSecurity/index.aspx |

[a]Classification of Instructional Programs.

Note: This list may be incomplete.

CC = Casper College, CWC = Central Wyoming College, EWC = Eastern Wyoming College, LCCC = Laramie County Community College, NWC = Northwest College, NWCCD = Northern Wyoming Community College District, WWCC = Western Wyoming Community College.

Source: WDQI custom extract and associated community college websites.

Prepared by K. Faler, Research & Planning, WY DWS, 6/6/17.

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| CIP[a] Code | College | CIP Title | Link |
|---|---|---|---|
| 4399 | WWCC | Homeland Security, Law Enforcement, Firefighting & Related Protective Services, Other | http://westernwyoming.smartcatalogiq.com/en/Current/Catalog/Programs-of-Study/Social-Sciences/Emergency-Management-Certificate |
| 5107 | CWC | Medical Transcription/ Transcriptionist | http://www.cwc.edu/healthcare/ |
| 5107 | CWC | Medical Office Assistant/ Specialist | http://www.cwc.edu/healthcare/ |
| 5107 | LCCC | Medical Insurance Coding Specialist/Coder | http://www.lccc.wy.edu/programs/healthInformationTechnology/curriculum.aspx#Office http://www.lccc.wy.edu/programs/healthInformationTechnology/curriculum.aspx#Certificate |
| 5107 | NWCCD | Medical Transcription/ Transcriptionist | http://www.sheridan.edu/academics/program/medical-assistant/ |
| 5107 | WWCC | Medical Administrative/ Executive Assistant & Medical Secretary | http://westernwyoming.smartcatalogiq.com/en/Current/Catalog/Programs-of-Study/Business/Office-Information-Systems/Computer-Applications-in-the-OIS-Lab/Medical-Office-Assistant-Certificate |
| 5108 | CWC | Medical/Clinical Assistant | http://www.cwc.edu/healthcare/ |
| 5108 | EWC | Veterinary/Animal Health Technology/Technician & Veterinary Assistant | https://ewc.wy.edu/academic-services/majors/veterinary-technology/veterinary-aide-certificate/ |
| 5109 | CC | Mammography Technician/ Technology | http://catalog.caspercollege.edu/preview_program.php?catoid=10&poid=3190&returnto=4251 http://catalog.caspercollege.edu/preview_program.php?catoid=10&poid=3163&returnto=4251 http://catalog.caspercollege.edu/preview_program.php?catoid=10&poid=3164&returnto=4251 |
| 5109 | CWC | Emergency Medical Technology/ Technician (EMT Paramedic) | https://my.cwc.edu/web/cwc-website/academics/programs/wildernessfirstresponder |
| 5109 | LCCC | Emergency Medical Technology/ Technician (EMT Paramedic) | http://www.lccc.wy.edu/programs/EMSParamedics/curriculum.aspx |
| 5110 | CC | Phlebotomy Technician/ Phlebotomist | http://catalog.caspercollege.edu/preview_program.php?catoid=10&poid=3123&returnto=4251 |
| 5115 | CC | Substance Abuse/Addiction Counseling | http://catalog.caspercollege.edu/preview_program.php?catoid=10&poid=3029&returnto=4251 |
| 5115 | NWCCD | Substance Abuse/Addiction Counseling | http://www.sheridan.edu/academics/program/addictions-practitioner-certificate/ |
| 5139 | CC | Licensed Practical/Vocational Nurse Training | http://catalog.caspercollege.edu/preview_program.php?catoid=10&poid=3130&returnto=4251 |
| 5139 | LCCC | Licensed Practical/Vocational Nurse Training | http://www.lccc.wy.edu/programs/nursing/CNA.aspx |
| 5139 | NWC | Licensed Practical/Vocational Nurse Training | http://catalog.nwc.edu/preview_program.php?catoid=7&poid=937&returnto=1064 |

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Source: WDQI custom extract and associated community college websites.

Prepared by K. Faler, Research & Planning, WY DWS, 6/6/17.

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| CIP[a] Code | College | CIP Title | Link |
|---|---|---|---|
| 5139 | NWC | Nursing Assistant/Aide & Patient Care Assistant/Aide | http://catalog.nwc.edu/preview_program.php?catoid=7&poid=938&returnto=1064 |
| 5139 | NWCCD | Licensed Practical/Vocational Nurse Training | http://catalog.sheridan.edu/preview_program.php?catoid=11&poid=1491&returnto=338 |
| 5139 | WWCC | Licensed Practical/Vocational Nurse Training | http://westernwyoming.smartcatalogiq.com/en/Current/Catalog/Programs-of-Study/Health-Sciences/Associate-Degree-in-Nursing-Program/Practical-Nursing-Outreach-Certificate |
| 5203 | CC | Accounting Technology/Technician & Bookkeeping | http://catalog.caspercollege.edu/preview_program.php?catoid=10&poid=3027&returnto=4251 |
| 5203 | CWC | Accounting Technology/Technician & Bookkeeping | https://my.cwc.edu/web/cwc-website/academics/programs/accountingbusiness |
| 5203 | WWCC | Accounting | http://westernwyoming.smartcatalogiq.com/en/Current/Catalog/Programs-of-Study/Business/Business-Administration/Accounting-Certificate |

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