



# Labor Market Supply and Demand Factors for Community College Program Evaluation (LMI Worksheet)

Department forms change periodically and it is the college's responsibility to use the most current forms available.

Forms, handouts and useful resources are located at

<http://www.odccwd.state.or.us/prgapproval/>

This document is a guide and worksheet for the college to investigate and evaluate the labor market supply and demand factors related to a proposed professional technical program. It also provides required documentation relevant to the State Board of Education approval standard for "Need." This worksheet is for planning purposes and actual LMI information must accompany a college's Notice of Intent for a proposed Associate of Applied Science degree or certificate of completion program in the Oregon Community College Program Submission System known as Webforms. It may be necessary to update or correct some information and you may be asked for additional information. If so, a revised LMI Worksheet will be required when submitting the New Program Application (NPA).

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Name of proposed program		Oregon Green Technician Certificate	
Credential(s) or form(s) of recognition proposed		Certificate	
CIP code	47.0000	CIP title	Mechanics and Repairers, General

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Information is available to complete much of this form at the Employment Department's Web site <http://www.QualityInfo.org> in the *Occupational Information Center* and the *Educational Information Center*. If necessary, the college may contact the Employment Department's Occupational Economist at (503) 947-1233 with questions about this information. Not all information needed to establish and document need is necessarily found through Oregon Employment Department resources. Please refer to the section, "Labor Market Supply and Demand Factors Explanation" later in this document for additional information concerning each question. It is the college's responsibility to utilize any sources of information available to adequately provide evidence of need.

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**1. What are the common job titles for the occupations that use the skills your program will teach?**

Maintenance Technician, Mechanic, Maintenance Mechanic, Machine Repairer, Maintainer, Maintenance Worker, Building Equipment Operator, Trades Helper, Maintenance Helper, General Maintenance Mechanic, Facilities Maintenance Technician, Technician's Helper, Carpenter's Helper, Electrician's Helper, Construction Trades Helper, Hazardous Materials Removal Worker,

*Source of this information:* General knowledge, job announcements, employers

**2. What occupational title(s) used by the Employment Department's Occupational Information Center on the <http://www.QualityInfo.org> Web site most closely describes the above occupations? What is the occupational description in the Occupational Information Center? (This is the occupation and description for which the data below will describe)**

Occupational Title	Description
Maintenance and Repair Workers, General	Perform work involving the skills of two or more maintenance or craft occupations to keep machines, mechanical equipment, or the structure of an establishment in repair. Duties may involve pipe fitting; boiler making; insulating; welding; machining; carpentry; repairing electrical or mechanical equipment; installing, aligning, and balancing new equipment; and repairing buildings, floors, or stairs. Excludes "Maintenance Workers, Machinery" (49-9043).

*Source of this information:* Occupational Information Center on <http://www.QualityInfo.org>

**3. What is the current number of jobs in the occupation(s)?**

Region # 9 (1-15, See the Regions section of <http://www.QualityInfo.org> for region descriptions)

Occupational Title	2008 Employment		
	Region	Oregon	Nation
Maintenance and Repair Workers, General	218	12,976	13,611,300

**4. What are the national percentages of males and of females currently in this occupation?**

Male 97

Female 3

*Source of this information:* Gender information is unpublished and only available by contacting the Occupational Economist at 503-947-1233

**5. Any occupation with less than 25% of one gender in the workforce is identified as "nontraditional by gender". Are any of these occupations nontraditional by gender?**

Yes X

No

*Source of this information:* Gender information is unpublished and only available by contacting the Occupational Economist at 503-947-1233

**6. What is the 10-year growth rate for this occupation?**

Occupational Title	2008-2018 Growth		
	Region	Oregon	Nation
Maintenance and Repair Workers, General	1.0%	.07%	.1%

Source of this information: Regional and Oregon data on the Occupational Information Center is on <http://www.QualityInfo.org>; National data is at <http://www.bls.gov/emp/emptab21.htm>

**7. What is the average annual (replacement and growth) job openings expected over the next 10 years in this occupation?**

Occupational Title	Average Annual Openings		
	Region	Oregon	Nation
Maintenance and Repair Workers, General	55	298	35,750

Source of this information: Regional and Oregon data on the Occupational Information Center is on <http://www.QualityInfo.org>; National data is at <http://www.bls.gov/emp/emptab21.htm>;

**8. Is a license required by the state of Oregon to perform this occupation?**

Yes \_\_\_\_\_  
No   X  

If yes, how many licenses were held in the most recent year? \_\_\_\_\_

Source of this information: Oregon Licensed Occupations publication is on <http://www.QualityInfo.org> under Publications

**9. What are the minimum educational requirements for the related occupation(s)?**

(On-the-job Training, Work Experience, Post-secondary, Apprenticeship, Certificate of Completion, Associate, Bachelor's)

Occupational Title	Minimum Educational Requirement
Maintenance and Repair Workers, General	Long-term OJT

Source of this information: Occupational Information Center on <http://www.QualityInfo.org>

**10. What are the competitive educational requirements for the related occupation(s)?** (Work Experience, Post-secondary, Apprenticeship, Associate, Bachelor's, and/or a combination.)

Occupational Title	Competitive Educational Requirement
Maintenance and Repair Workers, General	Associate Degree

Source of this information: Occupational Information Center on <http://www.QualityInfo.org>

# 11. Potential wages for this occupation

Occupational Title	Entry (use 10 <sup>th</sup> percentile if available)	Avg. (use median if available)	High (use 90 <sup>th</sup> percentile if available)
Region 9	\$9.56	\$14.79	\$25.19
Oregon	\$10.62	\$17.16	\$26.24

(Note: If the 10<sup>th</sup> and 90<sup>th</sup> percentile and median are not available, provide whatever wage data is available and note source of data.) Source of this information: Oregon Wage Information publications under the Publications section on <http://www.QualityInfo.org>

# 12. How many individuals completed the indicated CIP program in Oregon? (List each training facility and degree/certificate/award combination)

Program Year	School/Training facility	Type of degree/cert./diploma/award received	# of completers
	N/A		

Source of this information: Educational Information Center on <http://www.QualityInfo.org>

# 13. Answer the following questions concerning career ladders/career pathways:

## a. What are the potential career ladder, or "lattice," steps or the career pathway for programs completers?

This program will provide graduates with the requisite technical skills to serve in a variety of entry-level maintenance and repair positions. Completers will also receive specific instruction in sustainability and green practices. This certificate will serve as a solid foundation for individuals wishing to increase their skills via additional education or on-the-job training in occupations such as millwright or electrical apprenticeships, industrial machinery mechanics and equipment installers and technicians. The certificate will also serve as excellent preparation for graduates wishing to increase their skills via additional education or on-the-job training for a variety of "Green Occupations" such as wind turbine technicians, energy systems auditors, photo-voltaic solar technicians and installers, as well as wave energy technicians. This program will also be a viable pre-apprenticeship program which should make graduates very competitive for apprenticeship openings in a variety of occupations such as millwright and electricians.

## b. What are the minimum educational requirements for these jobs?

Typically these jobs require a combination of extensive on-the-job training, an industry certificate and/or an associate degree.

## c. Is training available for related career ladder/pathway occupation(s) and at what types of institutions?

Many community colleges offer associate degrees ranging from traditional programs such as electronics, welding, fabrication, machine tool and/or HVAC to new hybrid programs such as mechatronics. Many proprietary schools offer similar advanced programs in this occupational area. Several community colleges,

proprietary schools and industry associations are beginning to offer advanced training in "green technology".

*Source of this information:* Occupational Information Center "related occupations" on <http://www.QualityInfo.org>, Occupational Projections Handbook at <http://www.bls.gov/oco/home.htm>, general knowledge

**14. Please describe any other labor market information that may be relevant to this program (i.e., It is a heavily self-employed occupation, it is a high turn-over occupation, there is currently a severe shortage of workers in the occupation, the college is collaborating with employers who have indicated there is a shortage, etc).**

The Oregon Green Technician fits into meeting overall demand in green jobs as cited by the Oregon Department of Education, CCWD's need for green employees, and the President's urgency for green jobs. Though nascent in Oregon, green jobs according to the Oregon Workforce Development Department are expected to grow in new areas as well as supplemental training for incumbent works. Entry wages for **Maintenance and Repair Workers, General** are sitting at \$10.62 an hour according to the Oregon Labor Market Information System. The upper wage or 90th percentile cited by the same source is around \$26.24 per hour.

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