

## Memorandum

To: Derek Glavich, Construction Technology Faculty Member, College of the Redwoods

CC: Kerry Mayer, Dean of Career Education, College of the Redwoods

From: Sara Phillips, Director, Far North Center of Excellence

Date: March 3, 2021

Re: Program Modification, LMI for College of the Redwoods, Construction Equipment Operation and

Maintenance

## **Background**

College of the Redwoods contacted COE regarding labor market information for consideration of a program offering of a 21-unit certificate of achievement in Construction Equipment Operation and Maintenance. The request comes in response to feedback from a community advisory committee. This program would complement the existing Construction Technology program.

This memo uses the Strong Workforce Program labor market information template (exhibit 1), developed by the Los Rios Community College District, to provide a summary of occupational demand and educational program supply. The findings below summarize the data analysis shown in exhibit 1.

## **Findings**

- One community college in the Far North region (Butte) conferred an average of 29 certificates in TOP code 0947.30— Heavy Equipment Operation over the last 3 years (2017-18 through 2019-2020).
   Shasta College conferred an average of 47 certificates in TOP code 0116.00- Agriculture Power Equipment Technology, which trains for Agriculture Equipment Operation and Maintenance.<sup>1</sup>
- There are 338 projected annual openings over the next five years in two related occupations:
   Operating Engineers and Other Construction Equipment Operators (SOC 47-2073) and Industrial Truck and Tractor Operators (SOC 53-7051).<sup>2</sup>
- In the Far North, median hourly wages for Operating Engineers and Other Construction Equipment Operators is \$25.96, which exceeds the Far North average hourly self-sufficiency wage of \$23.70 for one adult, one child. Median hourly wages for Industrial Truck and Tractor Operators is \$20.39, below the self-sufficiency wage for one adult, one child, but exceeding the self-sufficiency wage for one adult.3
- At the national level, the typical entry-level education requirement for both occupations is a high school diploma or equivalent. Both occupations typically require moderate or short-term on-the-job training.<sup>4</sup>

Please contact Sara Phillips, Director, Far North COE, for further information at sphillips@shastacollege.edu

<sup>&</sup>lt;sup>1</sup> COE Supply Tables, California Community Colleges Chancellor's Office DataMart, and Integrated Postsecondary Education Data System (IPEDS).

<sup>&</sup>lt;sup>2</sup> Emsi 2021.1; QCEW Employees, Non-QCEW Employees and Self-Employed.

<sup>&</sup>lt;sup>3</sup> http://www.selfsufficiencystandard.org/California

<sup>&</sup>lt;sup>4</sup> U.S. Department of Labor, Bureau of Labor Statistics, Educational attainment for workers 25 years and older by detailed occupation, 2019, https://www.bls.gov/emp/tables/educational-attainment.htm



## Exhibit 1. LMI for Construction Equipment Operation and Maintenance in the Far North

Top6_Title	SOC Code	SOC Title	Skill Category	Typical Education
Heavy Equipment Operation	47-2073	Operating Engineers and Other Construction Equipment Operators	Middle Skill	On-the-job training, no college required
	53-7051	Industrial Truck and Tractor Operators	Below Middle Skill	On-the-job training, no college required
Agriculture Power Equipment Technology	47-2073	Operating Engineers and Other Construction Equipment Operators	Middle Skill	On-the-job training, no college required
	Heavy Equipment Operation  Agriculture Power Equipment	Heavy Equipment Operation 47-2073  53-7051  Agriculture Power Equipment 47-2073	Heavy Equipment Operation  47-2073 Operating Engineers and Other Construction Equipment Operators  53-7051 Industrial Truck and Tractor Operators  Agriculture Power Equipment  47-2073 Operating Engineers and Other	Heavy Equipment Operation  47-2073 Operating Engineers and Other Construction Equipment Operators  53-7051 Industrial Truck and Tractor Operators Below Middle Skill  Agriculture Power Equipment  47-2073 Operating Engineers and Other Middle Skill

Geograph	y - The program identified specifically targets the	e labor market r	eed for trained workers in		
- Select a region/subregion or a single county geography using the drop down lists embedded in the green or blue cell.  Demand - the program(s) prepare students to work in the following occupations			Region/Subregion list	Cor	unty list
			- Far North	n/a	
			<b>Supply -</b> On average, how many awards (certificates and degrees) are conferred by community colleges and other post-secondary institutions in the region/county identified?		
SOC Code	Occupational Title	Annual Openings (2019- 2024)	Institution Type		# of Awards Conferred (Annual Average)
47-2073	Operating Engineers and Other Construction Equipment Operators	183	Community Colleges		29
53-7051	Industrial Truck and Tractor Operators	155	Other Post-secondary Institutions		0
			* Shasta College, TOP 0116.00		47
			Summary of Data Entered:		222
			Demand		338
			Supply		29
			* Supply w/both TOP codes		76
			Analysis:		
			It's a go! Undersupply indicated		