

# PACT Welding Operator

Professional Accelerated Career Training

## Overview

LLCC- Taylorville offers several opportunities for area high school students to experience college *before* college. Advising is an important part of the transition from high school to college. LLCC-Taylorville has a full time academic advisor to meet your needs. Call 287.7081 to make your appointment to discuss your future at LLCC.

The Professional Accelerated Career Training (PACT) Program is for those students who have career goals and want to get started on a particular career path. Students spend two hours, Monday through Friday, in class, each semester. Students will obtain a head start toward a career or completion of a degree or certificate program. Students should check with their respective high schools regarding cost of the program. Some schools pay for tuition and fees and/or books. Convenient interest-free tuition payment plans are also available.

## Employment



Employment is projected to experience little or no change over the next decade. Good job opportunities are expected for skilled welders because some employers are reporting difficulty finding qualified workers.

Job prospects for welders will vary with the welder's skill level. Prospects should be good for welders trained in the latest technologies. Welding schools report that graduates have little difficulty finding work, and many welding employers report difficulty finding properly skilled welders. However, welders without up-to-date training may face competition for job openings. For all welders, prospects will be better for workers who are willing to relocate to different parts of the country.

## Wages

Median hourly wages \$16.13 per hour. Median wages of welders, cutters, solderers, and brazers were \$16.13 an hour in May 2008. The middle 50 percent earned between \$13.20 and \$19.61. The lowest 10 percent earned less than \$10.85, and the top 10 percent earned more than \$24.38. The range of wages of welders reflects the wide range of skill levels in the occupation.

About 20 percent of welders belong to labor unions; the particular unions that welders belong to depend on the industry and company in which the welder is employed.

Source: Occupational Outlook Handbook 2010-2011

## Cost

### Fall Semester

Estimated tuition/fee cost .....\$125.50 per credit hour\*

Estimated book costs .....\$ 30.00

### Spring Semester

Estimated tuition/fee cost .....\$125.50 per credit hour\*

Estimated book costs .....\$ 30.00

\*please reference the current semester course schedule for exact tuition costs.



Fall Semester (1:00-3:00 p.m.)					
	Monday	Tuesday	Wednesday	Thursday	Friday
Aug-Oct	WEL 101	WEL 101	WEL 101	WEL 101	WEL 101
Oct-Dec	WEL 103	WEL 103	WEL 103	WEL 103	WEL 103
Spring Semester (1:00-3:00 p.m.)					
	Monday	Tuesday	Wednesday	Thursday	Friday
Jan-Mar	WEL 104	WEL 104	WEL 104	WEL 104	WEL 104
Mar-May	WEL 105	WEL 105	WEL 105	WEL 105	WEL 105

### **WEL 101 Basic Metal Arc and Oxyacetylene Welding 3 credits**

This course is designed to provide students with a thorough understanding of arc welding fundamentals, welding safety, arc welding machines, electrode classifications and electrode selection. Training to develop the manual skills necessary to make high quality shielded metal-arc welds is included with emphasis placed in the areas of various joint configurations, in the flat and horizontal positions, single pass, multiple pass, fillet, stringer, weave and groove welds. Oxyacetylene welding, cutting, equipment set-up and safety is also introduced. (2 lecture hours and 3 laboratory hours)

### **WEL 103 Advanced Metal Arc Welding 3 credits**

This course is designed to develop students' proficiency in manual shielded metal arc welding processes, in and out of position configurations. Its primary purpose is to help prepare students for entry-level employment as a production arc-welding operator in the sheet fabricating and machinery building industry. (2 lecture hours and 3 laboratory hours)

### **WEL 104 MIG Welding 3 credits**

This course focuses on developing students' proficiency in the operation of the gas metal arc welding process. An overview of shielding gases and the types of metal transfer associated with gas metal arc welding that include metals of 16 gauge through 3/8" in various positions and configurations and highlighting an understanding of safety precautions is presented. Students are trained to meet commercial quality welding standards. (2 lecture hours and 3 laboratory hours)

### **WEL 105 TIG Welding 3 credits**

This course is designed to provide students with a thorough understanding of welding safety, gas tungsten arc-welding fundamentals, equipment adjustments and shielding gases. It also provides training to develop the manual skills necessary to make high quality gas tungsten arc welds in positions on mild steel, stainless steel and aluminum. (2 lecture hours and 3 laboratory hours)

- Students must be able to complete college level coursework;
- Students must be 16 years old at the time the term begins;
- Students are subject to all LLCC academic regulations and grading policies;
- Students are subject to LLCC prerequisites, placement guidelines and policies.

Interested students should talk with their high school counselors *and* call Dee Krueger, LLCC-Taylorville at 287.7081 or 1.800.572.5448.

*Limited seats are available in the PACT program*