

US Department of Agriculture (USDA)



Statement of Work

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Project

Weber Basin CNC Plasma Table and Oxy-Fuel Cutting System

General Information

1.0 Scope of Work

Provide a brief statement of the overall project, including goals and objectives.

The Department of Labor is modernizing the Job Corps program to improve the outcome for those enrolled. To better assist students in achieving long term success DOL's goal is to align student training with skills required by employers. This is a crucial part of students finding high quality job placement. Instructors are required to train students in the competencies outlined in the official Job Corps Electronic Training Achievement Record (e-TAR) (PRH 3.3 R2). The welding e-TAR requires student demonstrate they are competent in a variety of cutting procedures including scarring, beveling, groove, and hole cutting. To facilitate students meeting their e-TAR objectives a plasma cutter and table are necessary.

2.0 Background

Weber Basin's basic welding program has capacity for 48 students. According to the May 2024 Career Technical Training Report, 67% of Weber's welding students complete the program and 55% earn a primary credentials. Job Corps National goal is 85% for completion with 90% earning primary credentials (PRH Appendix 501). Weber's welding program currently hold a "C" grade, falling below the national goal.

For more than a decade the welding program has used a Powermax30 plasma cutter in student training. Unfortunately, the cutter is not rated for commercial use nor is it consistent with what the industry using. Without significant investment into modernizing the welding equipment, Weber's welding program will continue to fall below the national goal.

Contractor Requirements

3.0 Technical Requirements / Tasks

The supplier/vendor will satisfy the following requirements:

- Delivery of the CNC Plasma Table and Oxy-Fuel Cutting System
- Assembly of the CNC Plasma Table and Oxy-Fuel Cutting System
- Installation of software needed to operate the Plasma and Oxy-Fuel Cutting System
- Training on using the Plasma and Oxy-Fuel Cutting System

The Plasma and Oxy-Fuel Cutting System will meet the following technical requirements:

Plasma Cutter

- Self-Regulating primary input.
- Gas supply – clean dry, oil-free air or nitrogen
- Minimum 85 PSI flow rate
- Power supply, air filter, and controls
- Air plasma system that includes the power supply
- Robotic mini torch
- Work lead with ring terminal
- Mechanized cutting
- Cut capacity for 5/8 inch mild steel

Cutting Machine/Table

- Effective cutting size of 8ft by 4ft
- Water table
- Emergency stop
- Dual side drive
- Helical gearboxes and gear rack

- Maximum pipe diameter fo 6 inches with ½ inch wall
- Maximum pipe length of 8 feet
- Direct drive with chuck
- Fume collector connection point
- Spark and slag pan
- Spark arrestor
- Integrated software and hardware commonly used in schools that allows a minimum of 10 computers running the software with full CNC functions on each computer
- Motion controller with touch screen
- Wireless capability
- Minimum of 8gn of ram and 256gb hard drive
- Keyboard, mouse, multiple USB ports
- Integrated software and hardware
- Local training and support for equipment and software

4.0 Government Furnished

Weber Basin Job Corps center will:

- Internet access needed for installation and assembly
- Power and space needed for installation and assembly
- Provide Internet and computers to students for use with the cutting system

5.0 Deliverables / Schedule

Key Deliverables

Item No.	Deliverable	Objective	Due
1	CNC Plasma Table and Oxy-Fuel Cutting System	Delivery of the CNC Plasma Table and Oxy-Fuel Cutting System to Weber Basin's Welding Facility.	Within 60-days of contract award, during business hours. Monday thru Friday 8am-4pm, excluding federal holidays.
2	Assembly of CNC Plasma Table and Oxy-Fuel Cutting System	Assembly of CNC machine/table.	Within 30-days of delivery, during business hours. Monday thru Friday 8am-4pm, excluding federal holidays.
3	Installation of hardware and software	Installation of software and hardware needed to operate cutting system.	Within 30-days of delivery, during business hours. Monday thru Friday 8am-4pm, excluding federal holidays.
4	Training on use of CNC Plasma Table and Oxy-Fuel Cutting System	In person training for welding instructors and staff to use the Plasma and Oxy-Fuel Cutting System.	Within 10-days of assembly, during business hours. Monday thru Friday 8am-4pm, excluding federal holidays.

6.0 Travel

Travel to Weber Basin for the delivery, assembly and training of the CNC Plasma Table and Oxy-Fuel Cutting System is at the expense of the contractor.

7.0 Contractor's Key Personnel

Contractor is responsible for ensuring personnel responsible for installation and training are experienced in installation of the CNC Plasma Table and Oxy-Fuel Cutting System being installed.

8.0 Security Requirements

Contract personal shall comply with Weber's security protocols. Including checking in and out at the security checkpoint and staying in designated areas.

9.0 Data Rights

Not applicable.

10.0 Section 508 – Electronic and Information Technology Standards

Section 508 requires that all electronic products prepared for the Federal Government be accessible to persons with disabilities, including those with vision, hearing, cognitive, and mobility impairments.

Attachment

None