

NU-WAY INDUSTRIES INC.- JOB DESCRIPTION

POSITION TITLE: WELDING ENGINEER

REPORTS TO: Manufacturing Manager

POSITION SUMMARY:

Programming and set-up of robotic and laser welding equipment used to produce fabricated metal products per specifications.

ESSENTIAL JOB FUNCTIONS:

- Utilize robotic and laser welding cells to improve productivity, efficiency and quality.
- Benchmark and monitor daily production processes on robotic and laser welding cells.
- Troubleshoots programming, fixturing and production related issues as necessary.
- Aids in the design and development of production fixturing required for robotic and laser welding processes.
- Aids in the development of procedures and work instructions related to the robotic and laser welding processes.
- Works with manufacturing and industrial engineering to determine potential applications for robotic and laser welding.
- Responsible for the training of set-up and operator personnel on production, quality and safety procedures associated with robotic and laser welding.
- Studies blueprints, instructions, or sample part to review dimensions and tolerances of finished workpiece, sequence of operations, and setup requirements.
- Selects, aligns, and secures holding fixtures, attachments, accessories, and materials on robotic and laser welder as required.
- Calculates and sets controls to regulate machine factors, such as wire feed speed, amperage, polarity, assist gas, and type of weld rod.
- Operates and observes robot to detect malfunctions or non-conforming conditions and adjusts machine controls as required.
- Sets up and operates robot on trial run to verify accuracy of machine settings or programmed control data.
- Verifies conformance of finished workpiece to specifications, using precision measuring instruments.
- Inspects and measures parts to maintain quality records.
- Utilizes the data collection system to accurately record production activities including time spent, quantity produced and any rejected parts.
- Communicates with co-workers and supervisor to receive instructions and coordinate job activities.
- Follows all safety procedures and wears safety equipment or apparel as required.
- Performs all job functions to meet acceptable quality and performance standards.
- Ensures on a daily basis that the work area is clean and orderly including machine, tooling and workstation.

JOB QUALIFICATION REQUIREMENTS:

TRAINING AND EXPERIENCE: Minimum of 5 years of welding education or work experience. Blueprint reading and shop mathematics required. Experienced in thin gauge metals and weld process development for program creation.

PHYSICAL DEMANDS: The employee is required to:

- Exert up to 75 pounds of force occasionally, Exert up to 25 pounds of force frequently.

VISUAL ACUITY: Accommodation as required for reading documents, blueprints, computer screens and machine dials; and for evaluating parts or using precision measuring instruments.

HEARING ABILITY: Accommodation as needed to monitor machine sounds to identify and diagnose changes in order to take appropriate action. Ability to communicate with others.

WORKING CONDITIONS: Typical metal manufacturing environment with exposure to powder coat paint facility.

Employees may be required to follow other job-related instructions and duties as requested, subject to all applicable state and federal laws.

**THIS POSITION DESCRIPTION WAS APPROVED ON THE 1st of FEBRUARY 2005
BY STEVEN SOUTHWELL, PRESIDENT**