



# NIAGARA POWER TRANSFORMER

Powering Possible.

## FUNCTIONAL JOB DESCRIPTION

### WELDER FABRICATOR FULL TIME

8H DAY | 40H WEEK | 30M LUNCH | OCCASIONAL OVERTIME

## GENERAL DESCRIPTION OF DUTIES

*JOB DUTIES INCLUDE BUT ARE NOT LIMITED TO THE FOLLOWING*

### WELDER FABRICATOR DUTIES & RESPONSIBILITIES

- Cutting and joining metal parts, applying tools like mig-welder, plasma cutter, arc welder, oxyacetylene torch etc.
- Operating other equipment such as overhead cranes, holding jigs, iron worker, metal shear and brake. Along with various hand tools: grinder, band saw, chop saw, drill press, hammer, tape measure, etc.
- Follow engineering drawings and established manufacturing processes
- Complete all required quality and manufacturing checks and paperwork

### WELDER FABRICATOR SKILLS AND SPECIFICATIONS

- General knowledge of the properties and characteristics of metals
- Knowledge of safety precautions related to occupational hazards, procedures and practices of the trade
- Skilled in identifying the proper use of hand tools in the safest possible manner
- Skilled in operating fork lifts and overhead cranes

### WELDER FABRICATOR EDUCATION AND QUALIFICATIONS

- Welder fabricators are expected to pass basic weld test
- Basic mathematics skills
- Knowledge of welding symbols and blueprint reading skills

## ESSENTIAL MINIMUM PHYSICAL DEMAND JOB REQUIREMENTS

### AGILITY-MATERIAL HANDLING

- Lift parts up to 50 lbs occasionally
- Lifting sheet metal parts up to 50 lbs occasionally
- Pushing up to 50 lbs occasionally
- Pulling up to 50 lbs occasionally

### DEXTERITY

- Above average grip strength frequently
- Above average pinch strength frequently
- Above average hand coordination frequently

### POSTURAL

- Standing continually
- Walking frequently
- Standing bent forward frequently

## PHYSICAL DEMAND CHARACTERISTICS OF WORK FOR THE POSITION OF WELDER FABRICATOR

DEMAND LEVEL	O = OCCASSIONAL 1–33% OF WORKDAY	F = FREQUENT 34–66% OF WORKDAY	C = CONTINUOUS 67–100% OF WORKDAY
SEDENTARY	0–10 LBS	NEGLIGIBLE	NEGLIGIBLE
LIGHT	11–20 LBS	0–10 LBS	NEGLIGIBLE
MEDIUM	21–50 LBS	11–20 LBS	0–10 LBS
HEAVY	51–100 LBS	21–50 LBS	11–20 LBS
VERY HEAVY	OVER 100 LBS	51–100 LBS	21–50 LBS

### PHYSICAL DEMAND STRENGTH RATING: HEAVY

NON-MATERIAL HANDLING ACTIVITIES	N	O	F	C
CRAWLING		⚡		
SITTING		⚡		
STANDING			⚡	
WALKING			⚡	
STAIR CLIMBING		⚡		
LADDER CLIMBING			⚡	
BALANCE			⚡	
CROUCH		⚡		
REPETITIVE SQUATTING		⚡		
KNEELING		⚡		
REACHING FORWARD			⚡	
REACHING OVERHEAD		⚡		
FORWARD BENDING - SITTING	⚡			
FORWARD BENDING - STANDING			⚡	
STATIC BENDING			⚡	
FOOT OPERATION - LEFT ONLY	⚡			
FOOT OPERATION - RIGHT ONLY	⚡			
FOOT OPERATION - BOTH/EITHER	⚡			
STEPPING UP/DOWN		⚡		

LIFTING	FORCE	N	O	F	C
0–10 LBS				⚡	
11–25 LBS				⚡	
26–35 LBS			⚡		
36–50 LBS			⚡		
51–75 LBS		⚡			
76–100 LBS		⚡			
100+ LBS		⚡			
PUSH FORCE SHEET METAL	50 lbs		⚡		
PULL FORCE SHEET METAL	50 lbs		⚡		
PUSH FORCE CARTS	50 lbs		⚡		
PULL FORCE CARTS	50 lbs		⚡		

CARRYING	DISTANCE	N	O	F	C
0–10 LBS	UP TO 10'		⚡		
11–25 LBS	UP TO 10'		⚡		
26–50 LBS	UP TO 10'		⚡		
51–75 LBS		⚡			
76–100 LBS		⚡			
100+ LBS		⚡			

N = Never | O = Occasional | F = Frequent | C = Continuous

HAND/ARM USE	N	O	F	C	LEFT ONLY	RIGHT ONLY	BOTH/DOMINANT
PINCH			⚡				⚡
GRIP			⚡				⚡
FINE MANIPULATIONS			⚡				⚡
FINGER PRESS			⚡				⚡
KEYBOARD		⚡					⚡
TAMPING			⚡				⚡
TOOL USE				⚡			⚡

N = Never | O = Occasional | F = Frequent | C = Continuous

EXPOSURES	
NOISE 82db (a)	⚡
DUST	⚡
DAMPNESS	⚡
WHOLE BODY VIBRATION	⚡
VIBRATION: HANDS	⚡
CHEMICALS	
JARRING	⚡
BBP	
COLD < 45°F	⚡
HEAT > 85°F	⚡
HEIGHT < 3'	⚡
HEIGHT > 48"	⚡

SENSORY FUNCTIONS ESSENTIAL FOR SAFETY	
LIGHT TOUCH	⚡
DEPTH PERCEPTION	⚡
WRITING	⚡
SPEAKING	⚡
COLOR DISCRIMINATION	⚡
SEEING	⚡
HEARING	⚡
READING	⚡
WORK INDEPENDENTLY	⚡

PROTECTIVE EQUIPMENT REQUIRED	
FOOT PROTECTION HARD SOLE NON-SKID WORK SHOE	⚡
EYE PROTECTION	⚡
HEARING PROTECTION	⚡
N95 RESPIRATOR OR PAPR	⚡
GLOVES	⚡
GOWN	⚡
HEIGHT > 48"	⚡

## SKILLS OR SPECIALIZATION REQUIRED

- Must be able to safely work with power tools
- Must be able to follow directions and read instructions
- Good math skills, able to read a tape measure and take accurate measurements

## PHYSICAL DEMAND CHARACTERISTICS

This job is rated **heavy**. This rating is set forth by **The United States Department of Labor**.