



# NIAGARA POWER TRANSFORMER

Powering Possible.

## FUNCTIONAL JOB DESCRIPTION

### WINDER FULL TIME

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

## GENERAL DESCRIPTION OF DUTIES

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

- Operate wire-coiling machines to wind wire or sheet coils used in transformers
- Review work orders and specifications to determine materials needed and types of parts to be processed
- Must have ability to read and interpret winding sheets, drawings, and sketches
- Operate winding lathes, punches, brakes, slitters, and shears
- Cut, strip, and bend wire leads at ends of coils, using pliers and wire scrapers
- Select and load materials such as work pieces, objects, and machine parts onto equipment used in winding processes
- Record production and operational data on specified forms
- Attach, alter, and trim materials such as wire, insulation, and coils, using hand tools
- Stop machines to remove completed components using overhead cranes
- Accurately examine and test components using measuring devices and record test results
- Apply solutions or glue to wired electrical components using hand tools and bake components
- Must have ability to use brazing and welding equipment
- Interpret and carry out verbal instructions from designated persons or supervisors
- Ability to meet the company's standards for safety, quality and quantity of work
- Must have own tools

## ESSENTIAL MINIMUM PHYSICAL DEMAND JOB REQUIREMENTS

### DEXTERITY

- Above average grip strength frequently
- Above average pinch strength frequently
- Above average hand coordination frequently
- Use of firm grip to hold paddles

### POSTURAL

- Standing continuously
- Walking frequently
- Standing bent forward frequently

### AGILITY-MATERIAL HANDLING

- Lifting mandrels for paper 50 lbs occasionally
- Lifting tubes onto mandrels 55 lbs or a two man lift

## PHYSICAL DEMAND CHARACTERISTICS OF WORK FOR THE POSITION OF WINDER

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: MEDIUM**

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 UP TO 50'	30 lbs		⚡		
PULL FORCE UP TO 50'	30 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 = Continuously

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 = Continuously

EXPOSURES	
NOISE 82db (a)	
DUST	
DAMPNESS	
WHOLE BODY VIBRATION	⚡
VIBRATION: HANDS	⚡
CHEMICALS	
JARRING	⚡
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	

## 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 **medium**. This rating is set forth by **The United States Department of Labor**.