

**Niagara Transformer
Functional Job Description**

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|---|---|
| Job Title: | Winder |
| Work Hours: | Typical schedule: Full time 8 hours/ day 40 hours /week 30-minute lunch break Occasional overtime |
| General Description of Duties: (Job duties include, but, are not limited to the following) | <p style="text-align: center;">Job Description</p> <ul style="list-style-type: none"> • 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: With physical demand characteristics attached: | <p>Postural</p> <ul style="list-style-type: none"> • Standing Continually • Walking Frequently • Standing bent forwarded Frequent <p>Dexterity</p> <ul style="list-style-type: none"> • Above average grip strength Frequently • Above average pinch strength Frequently • Above average hand coordination Frequently • Use of firm grip to hold paddles. <p>Agility-Material Handling</p> <ul style="list-style-type: none"> • Lifting mandrill for paper 50# occasionally • Lifting tubes onto mandrills 55# or a two man lift. |

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Physical Demand Strength Rating: Heavy

PHYSICAL DEMAND CHARACTERISTICS OF WORK FOR THE POSITION OF

| DEMAND LEVEL: | O= OCCASSIONAL 1-33% of Workday | F= FREQUENT 34-66% of Workday | C=CONTINUOUS 67-100% of Workday |
|---------------|------------------------------------|----------------------------------|------------------------------------|
| SEDENTARY | 0-10 pounds | NEGLIGIBLE | NEGLIGIBLE |
| LIGHT | 11-20 pounds | 0-10 pounds | NEGLIGIBLE |
| MEDIUM | 21-50 pounds | 11-20 pounds | 0-10 pounds |
| HEAVY | 51-100 pounds | 21-50 pounds | 11-20 pounds |
| VERY HEAVY | OVER 100 pounds | 51-100 pounds | 21-50 pounds |

ESSENTIAL DEMANDS / FUNCTION LIST

| NON-MATERIAL HANDLING ACTIVITIES | N | O | F | C | LIFTING | | N | O | F | C |
|----------------------------------|---|---|---|---|----------------------|-----------|---|---|---|---|
| Crawling, | | X | | | 0-10 pounds | | | | X | |
| Sitting | X | | | | 11-25 pounds | | | | X | |
| Standing | | | X | | 26-35 pounds | | | X | | |
| Walking | | | X | | 36-50 pounds | | | X | | |
| Stair Climbing | | X | | | 51-75 pounds | | X | | | |
| Ladder Climbing | X | | | | 76-100 pounds | | X | | | |
| Balance | | | | X | 100 pounds + | | X | | | |
| Crouch | | X | | | | | | | | |
| Repetitive Squatting | | X | | | Push Force up to 50' | 30# | | X | | |
| Kneeling | | X | | | Pull Force up to 50' | 30# | | X | | |
| Reaching Forward | | | X | | | | | | | |
| Reaching Overhead | | X | | | CARRYING | Distance | | | | |
| Forward Bending: Sitting | X | | | | 0-10 pounds | Up to 10' | | | X | |
| Forward bending: Standing | | | X | | 11-25 pounds | Up to 10' | | | X | |
| Static Bending | | | X | | 26-50 pounds | Up to 10' | | X | | |
| Foot Operation: Left Only | | X | | | 51-75 pounds | | | | | |

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|--------------------------------|---|--|---------------|--|--|--|--|--|
| Foot Operation: Right Only | X | | 76-100 pounds | | | | | |
| Foot Operation: Both/Either | X | | 100 pounds + | | | | | |
| Stepping Up/Down | X | | | | | | | |

N = Never, O = Occasional, F = Frequent, C = Constant, F# = Force #

| HAND/ARM USE | N | O | F | C | Left Only | Right Only | Both/Dominant |
|--------------------|---|---|---|---|-----------|------------|---------------|
| Pinch | | | X | | | | X |
| Grip | | | X | | | | X |
| Fine Manipulations | | | X | | | | X |
| Finger press | | | X | | | | X |
| Keyboard | | X | | | | | X |
| Tamping | | | X | | | | X |
| Tool Use | | | | X | | | X |

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|------------|---|----------------------|---|---------------------|--|--------------|
| EXPOSURES: | | Noise 82db (a) | X | Vibration: Hands | | Cold < 45EF |
| | | Dust | | Chemicals | | Heat > 85° F |
| | | Dampness | X | Jarring | | Height < 3' |
| | X | Whole Body Vibration | | | | Height >48" |

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| PROTECTIVE EQUIPMENT | X | Foot Protection, hard sole non-skid work shoe | | N95 Respirator or PAPR |
| REQUIRED: | X | Eye Protection, | X | Gloves, |
| | X | Hearing Protection | | Gown, |

| | | | | |
|-----------------------|---|----------------------|---|--------------------|
| SENSORY FUNCTIONS | X | Light Touch | X | Seeing |
| ESSENTIAL FOR SAFETY: | X | Depth Perception | X | Hearing |
| | X | Writing | X | Reading |
| | X | Speaking | X | Work Independently |
| | X | Color Discrimination | | |

Physical Demand Characteristics

This job is rated a Medium. This rating is set forth by The United States Department of Labor.

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

Environmental Considerations

Completed By:

James Orrange, OTR

Date: 12/19/2009