# 1. General Information

Company Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
Location: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
Department: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
Date of Analysis: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
JHA Completed By: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
Reviewed By: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

# 2. Job Title / Task

Job Title: Laser Welding Technician

Task: Operating a Class 4 Laser for welding applications.

# 3. Regulatory Reference

This JHA meets the requirements of Washington Administrative Code (WAC) 296-800-160: Personal Protective Equipment (PPE), and addresses hazard assessment and protective measures.

# 4. Job Steps, Hazards, and Controls

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| **Job Step** | **Potential Hazard** | **Recommended Controls / PPE** |
| Setup of Class 4 Laser System | Electrical shock, fire hazard, exposure to non-enclosed laser beam | Ensure laser is properly grounded; use key control system; conduct pre-use inspection; follow lockout/tagout if servicing. |
| Aligning Beam / Adjusting Optics | Direct or reflected laser exposure to eyes and skin | Use appropriate laser-rated eyewear; restrict access to controlled area; use beam stops and non-reflective tools. |
| Welding Operation | High-intensity light and heat, fire from flammable materials, inhalation of metal fumes | Wear laser-rated face shield, fire-retardant clothing, welding gloves; use local exhaust ventilation (LEV); remove combustibles, have fire extinguisher in work area. |
| Shutdown and Maintenance | Residual laser energy, electrical hazard, hot surfaces | Follow cool down procedures; lockout/tagout electrical components; wear thermal-resistant gloves. |

# 5. Required Personal Protective Equipment (PPE)

- Laser safety glasses (rated for laser wavelength)
- Face shield with laser rated window
- Fire-retardant lab coat or welding jacket
- Welding gloves (thermal and spark protection)

- Fire extinguisher(s)
- Hearing protection (if in noisy environment)
- Safety shoes with non-slip soles

# 6. Additional Notes / Comments

- All operators must be trained and authorized to use Class 4 lasers.

- Access to the laser area must be restricted, with warning signs and emergency protocols clearly posted.