

# Red River Floodway Expansion Project Job Referral Service

**Job Order for****Pipe Fitter / Welder (7252)**

Contractor Name: \_\_\_\_\_

Contact Number: \_\_\_\_\_

**Credentials (certificates, licences, memberships, courses, etc.)**

- None
- 1<sup>st</sup> Period Apprentice
- 2<sup>nd</sup> Period Apprentice
- 3<sup>rd</sup> Period Apprentice
- 4th Period Apprentice
- 5<sup>th</sup> Period Apprentice
- Steamfitter – Pipefitter Trade  
Certification Experience \_\_\_\_\_
- Steamfitter – Pipefitter Red Seal  
Certificate Experience \_\_\_\_\_
- Sprinkler System Installer Trade  
Certification Experience \_\_\_\_\_
- Sprinkler System Installer Red Seal  
Certificate Experience \_\_\_\_\_
- Canadian Welding Bureau Certification

**Experience**

- No experience
- Less than one year
- 1 - 2 years
- 2 - 5 years
- 5 - 10 years
- 10+ years

**Languages**

- Speak English
- Read English
- Write English

**Type of Establishment/Work Setting Experience**

- Construction Industry
  - Commercial Construction
  - Institutional Construction
  - Industrial Construction
  - Residential Construction

**Area of Steamfitting and Pipefitting Specialization**

- High pressure steam systems
- High pressure water systems
- High pressure oil systems
- High pressure other liquids and gases
- Low pressure steam systems
  
- Low pressure water systems
- Low pressure oil systems
- Low pressure other liquids and gases

**Type of Piping**

- Black carbon or steel
- Plastic
- Glass or Pyrex
- Copper
- Stainless steel

**Welding Techniques**

- AC transformers and inverters
- Stud welding
- Shielded metal ARC (SMAW)
- Flux cored ARC
- Gas Tungsten ARC (GMAW) (TIG)
- SCW welding machine
- Plasma ARC
- Electric ARC
- Gas metal ARC (GMAW) (MIG)
- Oxy-acetylene
- Electroslag
- ARC seam
- AC – DC rectifiers
- Submerged ARC
- Heliarc
- ARC spot

**Welding Positions**

- Flat
- Horizontal
- Vertical – up
- Vertical – down
- Overhead
- All positions

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**Specific Skills**

- Determine layout requirements
- Cut openings for pipes in walls, ceilings or floors
- Select type and size of pipe
- Measure, cut, thread and bend pipes to required shape and size
- Weld, braze, cement or solder pipes and joints
- Test system for leaks
- Remove and replace defective components
- Install clamps, brackets and hangers to support piping and sprinkling systems
- Connect piping systems to water mains, supply tanks, pumps, compressors and control equipment
- Erect scaffolding, ladders, lifts and other temporary work platforms
- Rig material and equipment
- Operate power lifts
- Start up and reactivate systems
- Troubleshoot systems

**Additional Skills**

- Read and interpret blueprints, drawings and specifications
- Instruct apprentices
- Willing and able to work in confined areas
- Willing and able to work at heights