AUTHORIZATION #524 REQUEST #693

Regulation, AR 161/2022

AUTHORIZATION

Granted under section 13 of the Designated Trades and Restricted Activities

I, Stephen Neis, Acting Deputy Administrator for Designated Trades, pursuant to section 13 of the *Designated Trades and Restricted Activities Regulation* (DTRAR) hereby authorize **individuals** who are not otherwise permitted to perform restricted activities in the designated trade of **Welder** – **Welder Branch** and **Welder** – **Wire Process Operator Branch**, to perform only the following restricted activities of the trade, subject also to the restrictions and terms and conditions outlined below:

DTRAR Schedule 2

Welder – Welder Branch

Section 129 (2)

- (c) setting up oxyfuel accessories using recommended installation procedures
- (d) cutting, shaping and fitting steel using oxyfuel processes
- (e) cleaning and inspecting cut surfaces
- (j) setting up and welding using shielded metal arc, gas metal arc, flux core arc, submerged arc and gas tungsten arc welding processes
- (o) performing supplementary and disassembly procedures
- (p) using hand tools, power tools and shop equipment

Welder - Wire Process Operator Branch

Section 131 (2)

(c) cutting steel using oxyfuel processes

- (d) cleaning and inspecting cut surfaces
- (e) setting up and welding using gas metal arc, flux core arc and submerged arc welding processes

This authorization is subject to the following restrictions:

training required 1 (1) The performance of the restricted activities under this authorization is restricted to individuals who have successfully completed the applicable training course described in Appendix "A", delivered by an individual who holds a trade certificate or an endorsement in the designated trade of welder - welder branch recognized under the *Skilled Trades and Apprenticeship Education Act* (Alberta).

work (2) The performance of the restricted activities is limited to the following activities:

- the setting up and use of a shielded metal arc welding (SMAW) process for the welding of steel commercial overhead door rails and support brackets, and/or
- the setting up and use of a gas metal arc welding (GMAW) process for the welding of steel commercial overhead door rails and support brackets, and/or
- the setting up and use of oxy-fuel accessories for the cutting of old steel overhead door rails and support brackets.

This authorization is subject to the following terms and conditions:

Terms of authorization

effective 2 (1) This authorization is effective from December 11, 2024 to and including December 10, 2028.

right to (2) Notwithstanding subsection (1), this authorization may be revoked or the terms and conditions may be altered any time pursuant to s. 13(3) of the DTRAR.

Registry of employees

Maintain3Each person employing individuals performing restricted activities under
this authorization must, on request, provide a register of employees
performing restricted activities under this authorization in accordance with
the Skilled Trades and Apprenticeship Education Act (Alberta), the Freedom
of Information and Protection of Privacy Act (Alberta) or the Personal
Information Protection Act (Alberta).

Legislative requirements

all laws4Except as provided by this authorization, all other requirements of any
municipal, provincial, or federal legislation continue to apply.

Authorized by: Digitally signed by Stephen.Neis Date: 2024.12.11 15:05:37 -07'00'

Stephen Neis Acting Deputy Administrator for Designated Trades Advanced Education on December 11, 2024

TRAINING REQUIRED FOR AUTHORIZATION

- 1. Identify hazards for welding and cutting operations.
- 2. Identify the use of personal protective equipment for welding and cutting operations.
- 3. Explain the hazards involved with welding fumes and gases.
- 4. Interpret sections of the OHS Act, general safety regulations.

- 1. Describe the characteristics and handling procedures for oxygen and fuel gases.
- 2. Describe the functions of oxyfuel equipment components.
- 3. Demonstrate the use, care and maintenance of oxyfuel equipment components.
- 4. Explain the procedure for placement, set-up and shutting down of oxyfuel equipment.
- 5. Identify causes and preventive measures for backfires, flashbacks and burn backs.
- 6. Describe pressure and flame adjustments

- 1. Describe how to operate a hand-held oxyfuel cutting torch on mild steel plate shapes.
- 2. Perform straight line cutting on mild steel.
- 3. Pierce and cut holes in mild steel plate.

- 1. Describe the principles of operation of wire feed welding equipment.
- 2. Identify the components of a wire feed welding equipment set-up.

E. Wire Feed Welding Filler Metals and Feeders 1 Hour Outcome: Select wire feed welding consumables.

1. Identify wire feed welding equipment filler metals.

- 1. Identify shielding gases for wire feed processes.

- 1. Demonstrate the set-up and maintenance required for wire drive systems and gun assemblies.
- 2. Perform corrective measures for malfunctioning wire process equipment.

- 1. Weld stringer and weave beads in the flat and horizontal positions.
- 2. Weld in the 1F, 2F and 3F positions.
- - 1. Define SMAW related terms.
 - 2. Identify welding cables and accessories for welding power sources.
 - 3. Identify the effect of arc length on amperage and voltage.
- - 1. Define the terms associated with SMAW electrodes.
 - 2. Identify the CSA and AWS classification and specifications for SMAW electrodes.
 - 3. Identify the types and functions of SMAW electrode coatings.
 - 4. Describe the functions of slag.
 - 5. Describe care, handling and storage procedures for these electrodes.
 - 6. Identify mild steel SMAW electrodes and their applications.

- 1. Weld surface welds (stringer beads) in the flat position using E4310, E4914 and E4918 electrodes.
- 2. Weld fillet welds in the 1F, 2F, 3F and 4F positions using E4310, E4914 and E4918 electrodes.

Total Training Plan...... 46 Hours