



## National Certification Process for Designated Occupation

### WELDER

*(CSA W47.1 and ASME B31.3)*

#### Bermudian Applicants *(includes Spouse and PRC Holders)*

##### **Step One: Registration**

Applicant must download an Application Form from [www.dwd.bm](http://www.dwd.bm) or collect directly from the DWD.

The following documents must be submitted with the Application (**incomplete submissions will not be considered**):

- Certified copies of Credentials /Qualifications (if applicable)
- Passport or Voters Card (applicants must present to DWD)
- Current Resume
- Pay the \$265 Fee (checks must be made payable to the Accountant General)  
*(waived until December 31, 2017)*

##### **Step Two: Documents are vetted**

A Standards and Enforcement Officer (SEO) will vet all submitted documents to ensure completeness, competency comparison against the Standard and refer the application submission to the Occupational Advisory Committee (OAC) for evaluation.

##### **Step Three: Review and Evaluation**

The OAC will meet to assess submission(s) i.e. Credentials /Qualifications and make the appropriate recommendation to approve or not approve the submission.

The following is a list of Acceptable/Equivalent credentials:

- City and Guilds (UK)
- Red Seal (Canada)
- American Welding Society (USA)



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If approved, the applicant must participate in the following mandatory course(s);

- Practical Assessment against the CSA W47.1 or ASME B31.3 (see description below)
- NCCER (National Center for Construction Education and Research) Construction Site Safety Orientation course
- Customer Service

If applicant is unsuccessful they will be deferred with specific instructions for development. The OAC will provide a 'development plan' to ensure the applicant is successful in their next attempt. Once the applicant has satisfied the terms and conditions as set out by the OAC they must retake the practical assessment. This requirement must be completed within one year from date of Application.

*A certification will not be issued until these requirements are successfully completed*

#### **Step Four: Certification Decision**

Once all eligibility requirements are satisfied the final steps towards receiving National Certification are as follows:

- Occupational Advisory Committee (OAC) will inspect results of the coursework and may approve application
- Based on a recommendation from the OAC the National Training Board (NTB) and Minister may approve application
- A Public Notice bearing Applicant's full name must appear in the Official Gazette
- A Congratulatory letter, ID Card and Certificate will be issued upon successful completion of the process
- A regret letter will be issued if the applicant is unsuccessful

#### *Description of Welding requirements:*

All materials including electrodes and coupons are supplied by test center

#### **CSA W47.1**

- Electrode size: E7018 – 1/8" (3.2 mm) or larger diameter
- No grinders, saw blades, files or methods that remove deposited metal or alter weld bead profile are permitted
- The test is comprised of four (4) positions: flat, horizontal, vertical and overhead
- All coupons must have a backing strip attached
- Forty-five (45) minutes is allowed per coupon



### ASME B31.3

Welding Principles and Applications Seventh Edition

Larry Jeffus

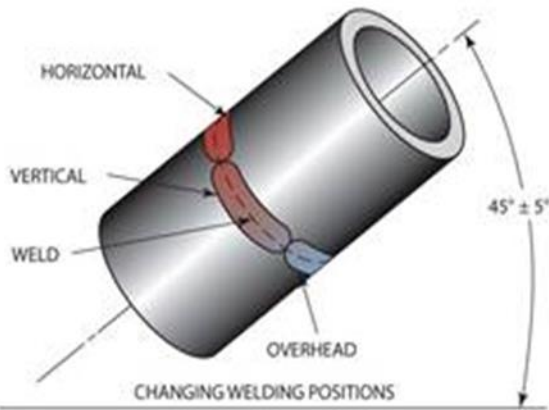


FIGURE 5-43 In the 6G position, the pipe is fixed at a 45° angle to the work surface. The effective welding angle changes as the weld progresses around the pipe.

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### Welding Positions

<p><b>PA / 1G</b> Weld: Flat Pipe: rotated Axis: Horizontal</p>	<p><b>PF / 5G</b> Weld: Vertical upwards Pipe: Fixed Axis: Horizontal</p>	<p><b>PG / 5G</b> Weld: Vertical Downwards Pipe: Fixed Axis: Horizontal</p>
<p><b>PC / 2G</b> Weld: Horizontal vertical Pipe: Fixed Axis: Vertical</p>	<p><b>H-LO 45 / 6G</b> Weld: Upwards Pipe: Fixed Axis: Inclined</p>	