

Technical Standards and Safety Authority 345 Carlingview Drive Toronto, Ontario, M9W 6N9 www.tssa.org

Brazer/Brazing Operator Certificate

Technical Standards and Safety Act No.

Boilers and Pressure Vessels Regulation

Brazer Last Name: First Name:		Signature:		Stamp/ID No.:
Date Coupon Brazed:	Provincial Reg. No.:	Company PQR No.:	Company	/ BPS No.:
Employer Name and Address:				

Testing Variables and	Ranges Qualified:	
Material specification of first test coupon base metal:		
Material specification of second test coupon base metal:		
Brazing Variables:	Actual Values:	Range Qualified:
Brazing process(es) (QB-401)		
Type of brazing (manual, semi-automatic, automatic, machine) (QB-351)		
Torch brazing: manual, machine, or semiautomatic (QB-410)		
Base metal P-Number to P-Number (QB-402)		
AWS BM No. to AWS BM No. (QB-402)		
Plate Pipe/Tube (enter diameter if pipe/tube)		
First base metal thickness [in(mm)] (QB-402)		
To second base metal thickness [in(mm)] (QB-402)		
Joint type (butt, lap, scarf, socket, etc.) (QB-408)		
If lap or socket, overlap length [in(mm)] (QB-408)		
Joint clearance [(in(mm)] (QB-408)		
Filler metal (SFA) specification(s) (info. only)		
Filler metal classification(s) (info. only)		
Filler metal / F-Number (QB-403)		
Filler metal product form (QB-403)		
Filler metal preplaced, mechanically fed, or manual (QB-403)		
First brazing flow position (QB-407)		
Second brazing flow position (QB-407)		

TESTING AND RESULTS

Visual Examination of Completed Joint (QB-141.6):

Mechanical Test: Peel (QB-462.3)

Peel (QB-462.3) Section (QB-462.4) Transverse Bends [QB-462.2(a)] Tension (QB-462.1) Longitudinal Bends [QB-462.2(b)]

Position	Result	Position	Result	Position	Result
Brazing supervised by (print na	me):		Company	:	
Mechanical tests conducted by	y (print name):		Company	.:	
Specimens evaluated by (print	name):		Company:	:	
abaratany Taat Na :					

Laboratory Test No.: _____

We certify that the statements in this record are correct and that the test coupons were prepared, brazed, and tested in accordance with the requirements of Section IX of the ASME Boiler and Pressure Vessel Code. When there is a specific reason to question the brazer's or brazing operator's ability, this Certificate may be revoked per Section IX, QW-322.1(b) of the ASME Boiler and Pressure Vessel Code.

Company:			
Certified by (print name):	Signature:	Date:	
,	5		

FOR TSSA INSPECTOR USE ONLY			
The Brazer named above has passed the brazing test required under Ontario's Technical Standards and Safety Act, Boilers and Pressure Vessels Regulation and is hereby authorized, subject to the limitation of this certificate.			
Check the applicable box below:			
To braze for the Employer named above only. For seeking employment only.	This Certificate expires:(dd/mm/yyyy)		
Inspector Name and Number (print)	Inspector Signature and Date		

*Information provided in this application is releasable under the Freedom of Information and Privacy Protection Act and may be disclosed upon request.



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Brazer/Brazing Operator Certificate

Technical Standards and Safety Act No. (1)

Brazer Last Name:	(2) First Name:	Signature:	3	Stamp/ID No.: (4)
Date Coupon Brazed: (5)	Provincial Reg. No.: 6	Company PQR No.:	(7) Cor	mpany BPS No.: (8)
Employer Name and Address: (9)			

Testing Variables an	nd Ranges Qualified:	
Material specification of first test coupon base metal:	(10)	
Material specification of second test coupon base metal:	(1)	
Brazing Variables:	Actual Values:	Range Qualified:
Brazing process(es) (QB-401)	(12)	(13)
Type of brazing (manual, semi-automatic, automatic, machine) (QB-351)	(14)	(15)
Torch brazing: manual or mechanical (QB-410)	(16)	(17)
Base metal P-Number to P-Number (QB-402)	(18)	(19)
AWS BM No. to AWS BM No. (QB-408)	20	(21)
Plate Pipe/Tube (enter diameter if pipe/tube) 2	23	(24)
First base metal thickness (in.) (QB-402)	25	26
To second base metal thickness (in.) (QB-402)	20	(28)
Joint type (butt, lap, scarf, socket, etc.) (QB-408)	(29)	30
If lap or socket, overlap length (in.) (QB-408)	31)	(32)
Joint clearance (in.) (QB-408)	(33)	(34)
Filler metal (SFA) specification(s) (info. only)	(35)	
Filler metal classification(s) (info. only)	36	
Filler metal / F-Number (QB-403)	(37)	38
Filler metal product form (QB-403)	(19)	(40)
First brazing flow position (QB-407)	(41)	(42)
Second brazing flow position (QB-407)	(43)	(44)

TESTING AND RESULTS

Visual Exam	ination of Completed	Joint (QB-141.6):	45		
46	Mechanical Test:	Peel (QB-462.3)	Section (QB-462.4)	Tension (QB-462	.1)
(40)		Transverse Bends (C	2B-462.2(s)]	Longitudinal Bend	ds [QB-462.2(b)]
Position	Result	Position	Result	Position	Result
(47)	48				
azing supervised by (print r	ame):	(49)	Company:		60
echanical tests conducted	10022 C. CS	61)	Company.:		62)
ecimens evaluated by (prir	t name):	63	Company:		(54)
aboratory Test No.:(55)				
			ired, brazed, and tested in accorda ng operator's ability, this Certifica ure Vessel Code.		
ompany: <u>66</u>					
ertified by:	67)	Signature:	(58)	Da	ate: 69

1	FOR TSSA IN	ISPECTOR USE ONLY
The Br		tandards and safety Act, Bollers and Pressure Vessels Regulation and is hereby authorized, subject to tion of this certificate.
Ch	neck the applicable box below:	~
60	To braze for the Employer named above only. For seeking employment only.	This Certificate expires:(61) (ddimm/yyyy)
	62	(3)
	Inspector Name and Number (print)	Inspector Signature and Date

PV 09398 (02/26/21)

"Information provided in this application is releasable under the Freedom of Information and Privacy Protection Act and may be disclosed upon request.



Guideline for completing the Brazer/Brazing Operator Certificate

NOTE: This is a general guideline. The examples stated are for information purposes only. Please refer to ASME Section IX for Code requirements and actual ranges qualified. All Code paragraphs or tables referenced are specific to ASME Section IX unless otherwise noted. State "N/A" for any item that does not apply to the coupon brazed.

e nith, etc.
<i>nith,</i> etc.
<i>nith,</i> etc.
<i>nith,</i> etc.
<i>nith,</i> etc.
19, etc.
22, etc.
'S BM No.300
'S BM No.300
tc.
' to 0.140", etc.
' to 0.118", etc.
tc.



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Technical Standards and Safety Act Boilers and Pressure Vessels Regulation

33	Record the joint clearance per QB-408.	0.002", etc.
	Record the range qualified of the joint clearance per QB-408.2 & QB-	
34	408.3.	0.002" to 0.005", etc.
35	Record the filler metal SFA specification(s).	SFA-5.8, etc.
36	Record the filler metal classification(s).	BCuP-5, etc.
37	Record the filler metal F-Number used per QB-403.	F-No. 103, etc.
38	Record the range qualified of the F-Number used per QB-403.1.	F-No. 103, etc.
39	Record the filler metal product form per QB-403.	Solid, etc.
40	Record the range qualified of the filler metal product form per QB-403.2.	Solid, etc.
41	Record the first brazing flow position per QB-407.	Vertical up, etc.
42	Record the range qualified of the first brazing flow position per QB-407.1.	Vertical up and vertical down, etc.
43	Record the second brazing flow position per QB-407.	Horizontal
44	Record the range qualified of the second brazing flow position per QB-407.1.	Horizontal
45	Record the results of the visual examination of completed braze(s) prior to cutting the test specimens per QB-141.6.	Acceptable, Satisfactory, etc.
46	Select the appropriate boxes for the testing completed on the brazed coupons per QB-462.3, QB-462.4, QB-462.1, QB-462.2(a), and QB-462.2(b).	
47	Record the position of the coupon tested.	Vertical up, etc.
48	Record the result of the coupon tested.	Acceptable, Satisfactory, etc.
49	Record the name of the individual responsible for supervising the brazing.	
50	Record the name of the company responsible for supervising the brazing.	
51	Record the name of the individual responsible for conducting the mechanical tests.	
52	Record the name of the company responsible for conducting the mechanical tests.	
53	Record the name of the individual responsible for evaluating the specimens.	
54	Record the name of the company responsible for evaluating the specimens.	
55	Record the laboratory test report number for any testing completed at a laboratory.	
56	Record the name of the company responsible for certifying the Brazer/Brazing Operator Certificate.	
57	Record the name of the individual responsible for certifying the Brazer/Brazing Operator Certificate.	
58	Signature of the individual responsible for certifying the Brazer/Brazing Operator Certificate.	
59	Record the date the Brazer/Brazing Operator Certificate was signed.	
60	To be completed by TSSA. Select the appropriate box for the Brazer/Brazing Operator to braze for the employer named on the certificate, or for the brazer seeking employment only.	
61	To be completed by TSSA. Record the expiration of the certificate (one year from the date the coupon was brazed), or state "Per ASME Section IX" (if applicable).	
62	To be completed by TSSA. Record the name and Ontario Certificate of Competency Number of the Authorized Inspector.	
63	To be completed by TSSA. Signature and date of the TSSA Authorized Inspector.	