



CBTA

Basic Fitting / Flange Management

SP/TRN/TM79

Candidate's Name: _____

Candidates Signature: _____

Assessor's Name: _____

Assessor's Signature: _____

Date Completed: CBTA Reassessment: ____/____/____

For first time candidates, the entire CBTA is to be completed. For the purposes of re-assessment only the demonstrative section requires completion.

Written

Question	Answer	Assessor check
<p>1. You are about to commence an inspection on a piece of equipment that will require unbolting of flanges to enable the inspection to be carried out. Please explain the steps you would take to ensure the plant remains safe and the isolation can remain in place in accordance with the permit to work process.</p> <p>The following actions have been completed so far:</p> <ul style="list-style-type: none"> • A permit has been issued for the work. • Isolations have been put in place. • The equipment has been de-pressured. 		
<p>2. During preparation of the task explain how the class and rating of flanges can be identified and confirmed;</p>	1.	
<p>3. What document is used for confirming gaskets, studs and torque settings when reinstating flanges?</p>	1.	
<p>4. What is the site standard for stainless steel studs and how are they identified?</p>	1.	

Oral

Question	Answer	Assessor check
2. What are the different studs types used on site and explain how to identify different studs and the service associated with them		
1. How may studs, would a 4 inch 150lb flange have?		
2. How many studs would a 6 inch 600lb flange have?		
3. How would you verify the: <ul style="list-style-type: none"> a. Service pressure of a line or piece of equipment? b. Stud and gasket type for a flange? 		
4. You are preparing to unbolt a flange in a long length of pipework, what do you look for before starting?		
5. On initial flange breaking of process equipment, which studs would be loosened first?		
6. What sort of damage do you look for once you have opened up a flange?		
7. You are preparing to reinstate a flange when you identify that the torque data sheet conflicts with other information available for the flange you are about to reinstate;		

What are your next steps?		
8. When reinstating a flange, what do you look for when initially tightening the studs?		

Demonstrative

Question	Assessor check
1. Candidate to demonstrate how to identify and explain the line details from a P&ID and, how to use that information to find bolt and torque values for a flange	
2. Candidate to demonstrate how to identify stud types. B7, L7 and B8 Class II versus B8 Class I	
3. Candidate to perform flange breaking steps as done during initial opening of flanges in a process service; followed by reinstatement of the flanges.	

The candidate is assessed as being:

Competent

Not yet competent

Areas requiring improvement:

For first time candidates only:

Department Manager's name: _____

Department Manager's signature: _____

Date: ____/____/_____