



CBTA

CATEGORY A

Chemical Injection Facilities CBTA Questions

SP/TRN/TM67

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
Chemical Injection System	Reference: UGS-PB-127	
Draw a process flow diagram (PFD) of the Chemical Injection System including: <ul style="list-style-type: none"> • Caustic injection • Scale Inhibitor injection. 		
Include in your PFD of the Chemical Injection System: <ul style="list-style-type: none"> • Chemical Bulk Storage • Chemical Injection Pumps and Injection Line Configurations. • Major process control valves and XSVs • Isolation Valves • PSVs and where they let down to • Include direction of flow • Identify different chemicals by colour coding • Identity pressures 		

Oral

Question	Answer	Assessor check
Chemical Injection System	Reference: UGS-PB-127	
Using this PFD conduct a walk / talk through - describe the process flow and explain to your assessor the purpose and function of each piece of equipment shown.		
Explain the type and purpose of each chemical injected.		
What are some of the problems you might experience while operating pumps? Describe how you might analyse the problem and reach a solution.		

Demonstrative

Question	Assessor check
Chemical Injection System	
Locate the Material Safety Data Sheets (MSDS) for these chemicals and describe the hazards associated with handling the associated chemicals.	
Demonstrate how to check the following: <ul style="list-style-type: none"> • Confirm chemical flow rate • Measure the delivered amount • How to adjust the rate if required. 	
Demonstrate the routine checks carried out on the Chemical injection pumps and system <ul style="list-style-type: none"> • General system inspection for leaks, spills and general cleanliness. • Check tank levels and determine remaining volumes. • Check remaining stock period based on average injection rates. 	
Using the latest Work Instruction demonstrate how to transfer chemicals from the bulk container to the chemical storage tank.	
Using the latest Work Instruction demonstrate start/stop of the pumps. (Simulation is acceptable).	

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: ____/____/_____