**SELF - ASSESSMENT GUIDE**

<table>
<thead>
<tr>
<th>Qualification:</th>
<th>Plumbing NC III</th>
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| Unit of Competency covered: | • Install centralized hot, chilled and / or potable water piping system  
• Install riser / downfeed and distribution water supply system  
• Install and connect pumps to plumbing system  
• Perform finishing and trimming of plumbing fixtures and accessories  
• Oversee plumbing works |

**Instruction:**
- Read each of the questions in the left-hand column of the chart.
- Place a tick in the appropriate box opposite each question to indicate your answer.

<table>
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<tr>
<th>Can I?</th>
<th>YES</th>
<th>NO</th>
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**Install centralized hot, chilled and / or potable water piping system**
- Interpret work instruction in line with job requirements
- Prepare pipes and fittings following prescribed procedures, tolerances and finishes consistent with job requirements
- Prepare and select tools/equipment as per job requirement
- Selects and use PPE in accordance with job requirements
- Use tools and equipment following established procedures
- Align, connect and weld pipes and fittings in line with job requirements
- Install pipe supports / braces / insulation materials following prescribed procedures and specifications
- Apply leak testing after completion of roughing-ins and complete installation of pipe supports.
- Set the testing apparatus to specified pressure rating according to testing standards.
- Apply gravity or flood testing to sanitary, waste, vent and storm drainage
- Perform good housekeeping

**Install riser / downfeed and distribution water supply system**
- Perform measurements in accordance with the piping lay-out plans
- Make joints in strict compliance with plumbness and levelness and/ or alignment with job requirements
- Select appropriate tools and equipment as per job requirements
- Select and uses PPE consistent with job requirements
- Tag and identify valves in line with their specific functions according to job requirements
- Clean and fit pipes and fittings properly for a leak free joints and connections
- Perform dry fitting connections according to job requirements
- Install pipe supports and braces following prescribed procedures
- Erect scaffoldings and flat forms according to job requirements and safety standards
- Perform threaded connections in line with the piping table and approved specifications.
- Fit and connect PP-R pipes and fittings according to standard practice
- Fit and connect HDPE pipes and according to standard practice
- Fabricate and install pipe hangers, sway braces and supports according to standards and job specifications
- Perform good housekeeping
- Use Teflon tape or any other type of jointing materials.

**Install and connect pumps to plumbing system**

- Identify and select the location of pump mounting pad based on approved plan and actual site condition
- Check the rating and capacity of pumps and accessories in accordance with its uses.
- Read and interpret basic operation and maintenance of pumps in accordance with the manufacturer's specifications.
- Identify power requirements of pumps and accessories according to voltage requirements
- Identify and select rating and capacity of valves according to its application
- Mark gate valves open or close normally during system operation
- Perform testing and commissioning of pumps and accessories in accordance with the Operation and Maintenance Manual
- Select and use PPE consistent with job requirements
- Perform good housekeeping

**Perform finishing and trimming of plumbing fixtures and accessories**

- Determine the location of stub-outs for plumbing fixtures as per job requirements
- Prepare finishing tools and equipment according to the job requirements
- Secures approval from person in-charge before mounting of plumbing fixtures
- List and select plumbing fixtures according to job requirements and finishing schedules.
- Observe the proper use of finishing tools and equipments in accordance with the manufacturer’s installation manual
- Prepare and submit verified report stub-out to person in charge
- Mount plumbing fixtures and trims according to manufacturer’s instruction manual
- Select finishing tools and equipment in accordance with the job requirement
- Conduct testing and flushing of installed plumbing fixtures and trimmings
- Perform good housekeeping in accordance with OSH standards

**Oversee Plumbing Works**
- Check preparatory activities based on workplace procedures and job requirements
- Check tools and equipment before start of work
- Observe and ensure safety of manpower in accordance with job requirements
- Check measurements, joints, appropriate PPE, materials and tools and equipment in accordance with occupational health and safety guidelines
- Check all valves, pipe supports, hangers and sway braces for plumbness in accordance with work standards
- Observe safety of manpower in accordance with job requirements
- Determine and evaluate location of pump, ratings, capacity and power requirements in accordance with manufacturer’s manual.
- Check pump operation, maintenance manual, and appropriate tools and equipment in accordance with work standards.

I agree to undertake assessment in the knowledge that information gathered will only be used for professional development purposes and can only be accessed by concerned assessment personnel and my manager/supervisor.

| Candidate's Name & signature: | Date: |