








PCID	Sub Element	Question	Option1	Option2	Option3	Option4	Solution or PC (Performance criteria)	QuestionLevel D
PSC_N 0101_PC1	Pre-installation	you are a plumber working on a site. You have already inspected the location and figured out the section for the basic plumbing work. What would be your next step to ensure execution and completion of the job?	Arrange the tools and materials to be used	Arrangements of instructors Table and chair	Identify the basic drawing of plumbing section	Draw the position of work benches, furnitures	understand the task to be done	1
PSC_N 0101_PC2	Pre-installation	Ravi is a plumber working on a site. The Supervisor has allocated the task for assembling all the pipe sections for fitting. Which type of tool is used for fitting the pipe?	slide wrench	Pipe wrench	parrot pliers	spanners	assemble pipe sections, tubing and fittings, using couplings, clamps, screws, bolts, caulking, or cutting, threading and joining equipment	2
PSC_N 0101_PC2	Pre-installation	Suresh, the plumber is working on the fitting and cutting of the pipes, there is a problem occurred while fitting the pipe i.e., a small portion of the pipe is uneven and also there is a leakage in the pipe. In what way he will solve the problem?	Using the wrench to cut the pipe and caulk is used to seal the pipe	Using the parrot pliers to cut the pipe and caulk is used to seal the pipe	Using the pipe cutter to cut the pipe and caulk is used to seal the pipe	Using the spanners to cut the pipe and caulk is used to seal the pipe	assemble pipe sections, tubing and fittings, using couplings, clamps, screws, bolts, caulking, or cutting, threading and joining equipment	3
PSC_N 0101_PC2	Pre-installation	Identify the fitting from the below images which is designed to allow quick and convenient disconnection of pipes to maintenance of fixture replacement?					assemble pipe sections, tubing and fittings, using couplings, clamps, screws, bolts, caulking, or cutting, threading and joining equipment	2
PSC_N 0101_PC3	Pre-installation	What are the steps involved in the installation of PEX pipe. Arrange them in sequence.	1.cut, ream and debur the tube 2. mark tube 1-1/4 from the end. Apply thin layer of lubricant suitable for use on potable water 3. push tube into inta - loc upto your mark preventing lateral movement of the pipe	1.mark tube 1-1/4 from the end. Apply thin layer of lubricant suitable for use on potable water 2. cut, ream and debur the tube 3.push tube into inta - loc upto your mark preventing lateral movement of the pipe	1.push tube into inta - loc upto your mark preventing lateral movement of the pipe 2.cut, ream and debur the tube3.push tube into inta - loc upto your mark preventing lateral movement of the pipe	1.push tube into inta - loc upto your mark preventing lateral movement of the pipe 2.cut, ream and debur the tube 3.push tube into inta - loc upto your mark preventing lateral movement of the pipe	establish the sequence of pipe installations	3
PSC_N 0101_PC4	Pre-installation	Install the unit on an outside wall away from heat-producing units such as an incinerator, water heater, and dryer. What is the reason for this?	It is preferable to plan on using wall inlet valves	Electrical specifications of the power unit should be checked to avoid overloading the circuit.	A branch line located directly below an overhead trunk line will accumulate dirt due to the effects of gravity	Avoid venting to patios and entranceway	plan installation around obstructions such as electrical wiring, etc.	2
PSC_N 0101_PC5	Pre-installation	Identify the correct option in chase marking and locate the position using the tools for the given images:				All of the above	locate and mark the position of pipe installations, connections, passage holes, and fixtures in structures, using measuring instruments such as rulers and levels	2
PSC_N 0101_PC6	Installation	According to the process of sanitary fixtures, to cut open the structure for fittings, what is the hand power tool used in this process.	plunger valve	wrench	spanner	slide wrench	cut openings in structures to accommodate pipes and pipe fittings, using hand and power tools (if required)	1
PSC_N 0101_PC7	Installation	For any pipe, there is a minimum bending radius. The bending radius depends on the material, so with the pipe diameter, wall thickness and heating temperature is determined. Hence, what is the bending radius for cold bending of a steel pipe?	Appr. 8 x outside diameter	Appr. 4 x outside diameter	Appr. 10 x outside diameter	Appr. 2 x outside diameter	measure, cut, thread, and bend pipe to required angle, using hand and power tools or equipment such as cutting, threading and bending equipment	3
PSC_N 0101_PC7	Installation	All changes in direction of flow in drain piping shall be made by the appropriate use of 45 degree wyes, long or short sweep quarter bends, sixth, eighth, or sixteenth bends is determined by the following equipment?	Streamfitters	Pipefitters	Sprinkle system installer	All of the above	measure, cut, thread, and bend pipe to required angle, using hand and power tools or equipment such as cutting, threading and bending equipment	2
PSC_N 0101_PC8	Installation	The plumber is working in a site, the horizontal supporting members that run between foundations, walls or beams to support a ceiling or floor. What is the support used to hang the pipe in place?	ceiling joists	streamfitters	pipe joists	hacksaw	hang steel supports from ceiling joists to hold pipes in place (if required)	1
PSC_N 0101_PC9	Installation	What are the steps involved in dishwasher installation. Arrange them in sequence	1. check to make sure that the handle is firmly attached. 2. adjust the springs of dishwasher if it tends to fall. 3.Place the handle on the front of the dishwasher. Slide the holes on the back over the handle mounting studs.	1.Place the handle on the front of the dishwasher. 2. adjust the springs of dishwasher if it tends to fall . 3.check to make sure the handle is firmly attached	1.Place the handle on the front of the dishwasher. Slide the holes on the back over the handle mounting studs. You may need to loosen the set screws using a 3/32" . 2. check to make sure the handle is firmly attached . 3. adjust the springs of dishwasher if it tends to fall	None of the above	install pipe assemblies, fittings, valves, appliances such as dishwashers and water heaters, and fixtures such as sinks and toilets, using hand and power tools	3
PSC_N 0101_PC10, PSC_N 0102_PC9	Productivity & Quality of output	After completion of the fixture process, the entire building drain with all its branches, receptacles and connections shall be brought so far as practical to the surface or grade of the basement floor and shall be tested with:	Water	Air	Using some device	flux	test the joints and fixtures for proper functioning	1

PSC_N 0101_PC11,PSC_N 0102_PC10	Productivity & Quality of output	Work area is cleared and materials is disposed of, reused or recycled according to legislation, regulations because of:	prevention of diseases	protection from the hazard material	prevention is better than cure	All of the above	clear the work area and waste disposal	1
PSC_N 0102_PC1	Diagnosis	Before starting the work, a plumber has to some analysis of the previous work of the installed plumbing. How he can find out the pipes used in water distribution system which are color coded?	Steel Pipes	Galvanised Iron Pipes	Ductile Iron Pipes	Cast Iron Pipes	understand the installed plumbing system	1
PSC_N 0102_PC2	Diagnosis	Identify the problem that is occurring with drains i.e., specifically, the individual drains which are not functioning correctly?	Try to determine the extent of "slow drain" problem	Determine the route of waste water takes to reach the main drainpipe	Locate your water meter, read the amount displayed, note it, then wait an hour or two, and reread it to see if water has gone through it when none was being used in your home	Be careful not to scratch the finish and check to make sure the handle is firmly attached	identify the problem/fault in the system and its cause	2
PSC_N 0102_PC3	Diagnosis	If geyser is not supplying hot water properly, what type of repair has to be done to function properly?	Check the outlet PVC connection pipe if any repairs have to be done	Check the inlet PVC connection pipe for any repairs	Check inlet & outlet PVC connection pipe if any repairs have to be done	NRV failure has to be checked	establish the sequence of repair	2
PSC_N 0102_PC4	Diagnosis	To open and close by turning handle which allows for control and to hold object allowing other tools to complete a task, what is the tool used for this type of functioning?	benchvice	chisels	clamps	plummet	assemble fittings, fixtures and tools required for the task	1
PSC_N 0102_PC5	Repair	To determine the length of the long side (Hypotenuse) of a 45° right triangle, place your thumb nail on the length of the leg on the regular scale and turn the ruler over. To find the length of the leg, what is the tool used and how you will measure?	place your thumb nail at the correct measurement on the 45° scale side and turn the ruler over and read the regular scale	place your thumb nail at the incorrect measurement on the 45° scale side and turn the ruler over and read the regular scale	place your thumb nail at the correct measurement on the 45° scale side and turn the ruler over and donot read the regular scale	None of the above	locate and mark the position of the component to be replaced/repared, using measuring instruments such as rulers and levels	2
PSC_N 0102_PC6	Repair	You are instructed to cut a triangular opening into a wall. Once cut, the triangular opening forms one 30-60 right triangle. The longest side of the triangle measures 10' 0". The shortest side will measure approximately ____ ft.	4	5	8	10	cut openings in structures to remove defected pipes and pipe fittings, using hand and power tools	1
PSC_N 0102_PC7	Repair	A coupling device for connecting 2 pipes neither of which can be turned, consisting of two internally threaded end piece which are tightened around the pipes ends to be joined, and an externally threaded center piece, What is the device used for connecting:	Reducer	Union	Nipple	Coupling	measure, cut, thread, and bend pipes to required angle, using hand and power tools or equipment such as cutting, threading and bending equipment	2
PSC_N 0102_PC8	Repair	As the plumber is working to remove the drain tailpieces and screw in new tailpieces, Cut new pipes with a hacksaw, what is the tool to be replaced to assemble the pipes and fill the sink after completing the assembly.	Compression fittings	Pipe fittings	Tube fittings	None of the above	replace with new pipe assemblies, fittings, valves, appliances such as dishwashers and water heaters, and fixtures such as sinks and toilets, using hand and power tools	1
PSC_N 0102_Pc11,12	Quality of output	For the installation of wash basin, to achieve quality finishing for the repair of wash basin, what are the steps to be followed and arrange them in sequence?	1.consider the type of basin to install.2.select the type of taps to fit. 3. decide plumbing system to use 4. decide the location of basin	1.select the type of taps to fit. 2. consider the type of basin to install 3.decide plumbing system to use 4.decide the location of basin	1.decide plumbing system to use 2.decide the location of basin 3.select the type of taps to fit. 4.consider the type of basin to install	None of the above	achieve quality finishing in repair of sanitary fixtures and fittings and deliver the task in time	2
PSC_N 0102_PC13	Quality of output	For floor washing in large buildings and kitchens like canteens and hotels. To ensure minimum wastage of material, what is to be done?	Cleaners Sinks should be used	Utensil Sinks need to used	Vegetable Sinks to be used	All of the Above	ensure minimal wastage of material	1
PSC_N 0102_PC14	Quality of output	If you are drilling into tiles, what is the practice of minimum damage to the controlling the drill?	Use specialist tile drill bit and stick a little piece of masking tape over the area of the tile to stop the drill from wandering	Use a longer wire for drill to give free hand while drilling	Drill the hole fastly to prevent damage to tile	None of the above	ensure minimal damage to other systems	2
PSC_N 0108_PC1,10	Interaction with supervisor	Joseph's Supervisor is on bangkok tour. Mr. Akash, Asst. Supervisor took responsibility of Joseph and others. In the absence of his supervisor, What Joseph has to do?	Take leave as his supervisor is out of station	Take work instructions and report to Asst.supervisor	Do not take any instructions from Asst. Supervisor	none of the above	receive work instructions and raw materials from reporting supervisor	1
PSC_N 0108_PC2	Interaction with supervisor	Mallik an assistant in a contract work of plumbing; on a particular day his work is interrupted due to drilling machine crash. What is the immediate action that Mallik has to take?	Report the situation to Supervisor and request him to provide tools/equipments required to complete his task	Take a leave without informing the situation to supervisor	Ask money for repairing the equipment	Get a mechanic for repairing	communicate to reporting supervisor about task status, repairs and maintenance of tools and equipment as required	1
PSC_N 0108_PC3	Interaction with supervisor	In case of unexpected release of hot water or steam from geyser which results in serious injury. As a responsible worker, he has to report to the:	Supervisor	Manager	Worker	Employee	communicate any potential hazards and expected process disruptions	1
PSC_N 0108_PC4,5	Interaction with supervisor	The plumber installed the geyser in a site. What is the duty of the assistant/helper after successful completion of his work?	Go home and take rest	Watch a Movie	Submit the task completion report to senior and receive feedback from senior	Play with kids	handover completed task to supervisor and receive feedback from reporting superviso	1
PSC_N 0108_PC6	Interaction with supervisor	Raghu has to fix drain pipe in a house, but is unable to resolve the issue due to heavy rain. In this situation, what he needs to do:	He can go home and report later	Explain him about the issue is not solved and ask him about 2 days extra to complete the work	Give a glance of information on how to reduce the work load	Do not share or reveal the secrets of work	report any anticipated reasons for delays	1

PSC_N 0108_PC7,8	Interaction with supervisor	Rajiv pathak is a good team player and completes his work in the given time. His team members wonder at his performance, what are the best practices rajiv can share with his team members to improve their performance?	Take entire work of team members and complete	Share the tips, tricks and teach required skills to do the work efficiently in the given period of time	Give a glance of information on how to reduce the work load	Do not share or reveal the secrets of work	work as a team with colleagues and share work as per the work load and skills and work with colleagues of other teams	1
PSC_N 0108_PC9	Interact with colleagues within and outside the team	RANE Construction Company gave plumbing contract to the lowest bidder. 70% of the work is completed, but payment for the work done is not yet released. What the contractor has to do?	File a case against the Construction company	Make agitations in front of the company	Stop the work immediately	Explain the difficulties to the company and with mutual understanding find a solution	communicate and discuss work flow related difficulties in order to find solution with mutual agreement	1
PSC_N 0108_PC11,12	Interact with colleagues within and outside the team	While working under senior. Ganesh moved into a new project where he has to fit sanitary fixtures. What is the regular course of his duty?	Provide work plan to supervisor	Convey the work difficulties to the worker	Receive raw-materials, work instructions and targets to be achieved	None of the above	report problem/incident etc. and put team over individual goals	1
PSC_N 0108_PC13	Interact with colleagues within and outside the team	A costly tile has been broken while fitting shower by a team of three plumbers. Each one starts blaming one other for the negligence. What should be the ideal way of handling the situation?	Be the first to call the supervisor and complain about the others negligence	Discuss within the team and find the best way to replace or mend the broken tile	Tell the owner that the tile was broken prior to their work	Leave the place unnoticed and explain later to supervisor	resolve conflicts	1
PSC_N 0109_PC1,2	Communicating potential accident points	Rajesh, plumber is working in a site using sharp tools. What are the safety precautions to be taken in order to avoid any uncertainties or accidents at work place?	Never use dagage tools like files without handle or hammer without wedges, wipe the handles of tools and clean if they are oily or greasy, hold slippery tools firmly and attend safety campaigns	Always deburr the end of pipes after cutting the to length. Bur can cause cut during the further processing of pipes.	Always wear leather gloves to handle hot pipes.	Never Lubricate any oxygen - equipment	avoid accidents related to use of sharp tools and equipment and attend and actively participate in the health and safety campaigns organized by the company or any other authority	1
PSC_N 0109_PC3	Using safety gear	Roshan is a plumber is working on a site. As per the rules and safety precautions, what is the safety equipment a plumber must follow before starting work?					use or wear safety gear as per the rules of the company	1
PSC_N 0109_PC4	Using safety gear	Colonel Fire School conducts camps for employees who work in fire department or fire evacuation team. What is the objective of conducting these camps?	To aware of protecting from fire accidents and taking safety precautions	To protect others from accidents	To protect from hazardous material	None of the above	attend fire drills organized by the company or any other authority	1
PSC_N 0109_PC5	Using safety gear	Do not touch the victim until electrical contact is broken, If possible, unplug or switch off the source of electricity, if victim is not breathing and has no pulse, call for medical assistance immediately. In this scenario, is this type of first - aid used for:	using chemicals	Electrical shock	using sharp tools	All of the above	learn first-aid procedure	1
PSC_N 0109_PC6	Using safety gear	What is the immediate action to be taken on hearing an evacuation alarm, or on instruction of emergency control personnel?	Immediately cease all activity and secure personal valuables.	Assist any person in immediate danger, but only if safe to do so.	In a fire, do not use a lift to evacuate a building and follow the instructions of relevant emergency services personnel	All the above	understand the evacuation and emergency procedures	1