Model Curriculum

Plumber (General)

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SECTOR: PLUMBING INDUSTRY

SUB-SECTOR: CONTRACTORS

OCCUPATION: PLUMBING REFERENCE ID: PSC/Q0104

NSQF LEVEL: 3



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Curriculum for Plumber (General)

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PLUMBER (GENERAL)

CURRICULUM/SYLLABUS

This program is aimed attraining candidates for the job of a "<u>Plumber (General)</u>", in the "<u>Plumbing</u>" Sector/Industry and aims at building the following key competencies amongst the learner

Program Name	Plumber (General)			
Qualification Pack Name & Reference ID.	PSC/Q0104			
Version No.	1.0	Version Update Date	01-12-2015	
Pre-requisites to Training	2017). In lieu of minimur	(To be revised to 10 th Class/St n qualification candidate has be two years in the same role.		
Training Outcomes	Understand pre the task, materi positions. Install pipes and fittings and fixture understanding to the fault in the serepair like replaced Receive workins. Interact with coles Communicate and pass on the Report to senion anticipated or remaind the series of the Result in a Maintain health.	ement etc. with minimal dama tructions, discuss task status a leagues within and outside the discuss work flow, problem a learning within and outside to about process flow improve petitive hazards with regarding of tools and equipment. or any other problem at the ccident. If y and safe at secure working a independently, be a good to	s involving understanding of urements and marking the ality check of the installed and handover activities. Spection and identification of ge to other systems. Indreceive feedback. The team. The same state that can reduce sto:- construction site that could genvironment.	

This course encompasses four out of four National Occupational Standards (NOS) of "<u>Plumber (General)</u>" Qualification Pack issued by "<u>SSC: Indian Plumbing Skills Council</u>".

Sr. No	Module	Theory Duration (hh:mm)	Practical Duration (hh:mm)	Key Learning Outcomes	Corresponding NOS Code	Equipment Required
1	Introduction	4 hrs	1 hrs	About Programmed		

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2	Installation	4 hrs	3 hrs	 Introduction of basic plumber work Knowledge of existing plumbing system and site management Perform operations/procedures on types of pipes Prepare and Interpret drawings Understand the role in a team Repair of fixtures and fittings Learn use of power tools and machines at site Knowledge of material storing, stacking and specifications 	(PSC/ N 0101)	
3	Repair	4 hrs	4 hrs	Repairing of various types of fitting and fixtures Identify the cause/fault Establish a sequence of repairactivities Decommission Locate the component t be replaced/repaired, Cut defective structures, Measure correctly, Replace Test Commissioning	(PSC/ N 0102)	
4	Plumbing (Maintaining & Services)	8 hrs	7 hrs	It covers diagnose problems and/or failures in plumbing system for the purpose of identifying activities necessary to maintain the system It covers promptly addressing a snag in the plumbing systems	(PSC/Q0112)	
5	Coordination	6 hrs	6 hrs	 Communicate with in the team Communicate outside the team Plan and prepare Comprehend Worker manual Skills in the team members 	(PSC/ N 0108)	



IP	SC					
				 Understand responsibility for work Working in a team Report structure and workflow management Work process communication and reporting of disruptions Understand the role in team 		
6	Environment, health and Safety	5 hrs	7 hrs	 Pre operational study as per Manual Hazard analysis at sites welfare facilities Clearance of all work area Maintenance of equipment 	(PSC/ N0109)	Face Protection; Face mask/shield , Head protection: Safety Helmet (hard hat), Eye protection (safety glasses with rigid side shields), Safety Shoes/ footwear, Hand protection: hand gloves based on exposure presented, Long pants and shirts with sleeves extending over the shoulders, High visibility vest or other outer most high visibility clothing, Welder's caps, Approved liners, Tight weave cotton, Drawstrings in clothing. Fire extinguishers Type A,B,C&D, ladder, safety harness/rope/belt ,Ear Protection: earplugs/mufflers , Stretcher, First aid kit, Fire Alarm bell etc.
7	Soft Skills	7 hrs	2 hrs	 Composting as an additional income option Preparing the composting area/pit 		

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Total Durat	30 hrs	
		 Preparing the organic waste Harvesting the Compost Modification of waste for value addition Latest trends in Recycling of waste

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Annexure1: Assessment Criteria

Assessment Criteria for Plumber (General)	
Job Role	Plumber (General)
Qualification Pack	PSC/Q0104
Sector Skill Council	Plumbing

Sr. No.	Guidelines for Assessment
1	<u>Pre-Assessment Examination</u> - Learner shall be required to undertake a pre-assessment examination to determine the minimum qualification of the candidate.
2	<u>In-course assessment-</u> Learner shall be required to participate in in-class activities.
3	<u>Assignments-</u> Assignments shall be given in-class and have to be completed and handed over to the instructor for evaluation. Non-submission/Late submission of assignments shall be marked as zero.
4	<u>Training/Field Tests-</u> Learner shall be required to participate in demonstrations during site visits.
5	Practical Training- Apprentice training to be done at the site of actual work.
6	<u>Post Learning Assessment Examination</u> - Learner shall be required to undertake a post-assessment to determine his learning's of concepts, theories, use of tools and equipment, and practical applications of procedures, workflow.
7	Passing Qualification Pack-Learner should score a minimum of 50% marks in aggregate with a minimum of 40% in each NOS to pass the qualification pack. Learner shall be exempted to reappear in a NOS provided he has scored minimum of 50% marks in a NOS though he has failed to score a minimum 50% marks in aggregate to pass the qualification pack.
8	In case of successfully passing one or more number of NOS(s), the trainee is eligible to take subsequent assessment on the balance NOS(s) to pass the Qualification Pack.

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Annexure2: Trainer Prerequisites for Job role: "Plumber (General)" mapped to Qualification Pack: "PSC/Q0104"

Sr. No.	Area	Details
1	Job Description	To impart training on Plumber General. The core responsibility includes enhancement of knowledge, refining of understanding and improvement in performance of the trainees. Train the plumbers for installation and repair of basic plumbing systems including those of advanced sanitary fixtures as per manufacturer's specifications in housing, commercial and institutional setups.
2	Personal Attributes	A Plumber Trainer should be free from socio-economic preferences and prejudice. He/ she should be well aware of new trends, products and techniques in the market. Besides being knowledgeable, he/ she should be energetic, motivating, innovative and good at communication. The trainer should be able to establish rapport with the trainees and employ innovative methods to impart instructions.
3	Minimum Educational Qualifications	Passed 10 th Class or Standard of Central or State Board of Education or equivalent as notified by Ministry of Human Resource Development, Govt. of India.
4a	Domain Certification	"IPSC Certification in Plumber (General) NSQF level 4 or equivalent QP with a minimum score of 70 percent" OR
		"ITI Certificate in plumbing trade with IPSC Certification in Plumber (General) NSQF Level 4 or equivalent QP with a minimum score of 70 percent"
		OR "Diploma or Degree in Civil or Mechanical Engineering from a recognised institute or university or equivalent qualification as notified by Ministry of Human Resources, Govt. of India with an IPSC Certification in Plumber (General) NSQF Level 4 or equivalent QP with a minimum score of 70 percent"
4b	Platform Certification	Recommended that the Trainer is certified for the Job Role: "Trainer", mapped to the Qualification Pack approved by NSDC/NSDA with a minimum accepted score of 60 percent in aggregate.
5	Experience	IPSC Certificate - 3 years. ITI in plumbing trade - 4 years. Diploma or Degree holders or equivalent in engineering - NIL.