

# Plumber

## On-the-Job Checklist



	Level 1	Page 1/2
Red Seal Tasks	On-The-Job Duties	Completed
Performs safety-related functions	Maintain a safe work environment by following protocol	<input type="checkbox"/>
	Use PPE & safety equipment	<input type="checkbox"/>
	Perform LOTO procedures to ensure safety	<input type="checkbox"/>
Uses & maintains tools & equipment	Use common tools & equipment to complete plumbing tasks	<input type="checkbox"/>
	Use access equipment, such as ladders & scaffolding	<input type="checkbox"/>
	Use rigging, hoisting, lifting & positioning equipment	<input type="checkbox"/>
	Assist in identifying hazards & inspecting rigging equipment for safe lifting	<input type="checkbox"/>
	Understand welding equipment operation & material preparation	<input type="checkbox"/>
	Use soldering & brazing equipment to complete plumbing tasks	<input type="checkbox"/>
Organizes Work	Organize project tasks & procedures to meet deadlines & requirements	<input type="checkbox"/>
	Organize materials & supplies efficiently to avoid delays	<input type="checkbox"/>
	Use documentation to track & report progress	<input type="checkbox"/>
Performs routine trade activities	Plan layout for piping systems based on blueprints & specifications	<input type="checkbox"/>
	Calculate tube, tubing & pipe lengths accurately	<input type="checkbox"/>
	Install piping supports to secure pipes	<input type="checkbox"/>
	Install piping sleeves for protection during construction	<input type="checkbox"/>
	Gather materials for system flushing, degreasing & air purging & understand their use	<input type="checkbox"/>
	Gather materials for sealing penetrations & installing protective components	<input type="checkbox"/>
	Review permit requirements & ensure all necessary approvals are obtained before excavation	<input type="checkbox"/>
	Identify required locations for fire stopping materials to prevent fire & smoke spread	<input type="checkbox"/>
Uses communication & mentoring techniques	Use clear communication with active listening & professional messaging to ensure understanding	<input type="checkbox"/>

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## On-the-Job Checklist



	Level 1	Page 2/2
Red Seal Tasks	On-The-Job Duties	Completed
Prepares tube, tubing & pipe	Ensure compliance through sensory inspection, certification checks & material verification	<input type="checkbox"/>
	Prepare piping systems by selecting tools, verifying materials, inspecting damage, measuring accurately & securing components for cutting	<input type="checkbox"/>
	Prepare piping systems by selecting & inspecting materials, measuring accurately & securing components	<input type="checkbox"/>
	Prepare pipe connections by selecting tools, reaming, threading, flaring, cleaning, beveling & inspecting materials to meet code requirements & industry standards	<input type="checkbox"/>
Joins tube, tubing & pipe	Join copper tube, tubing & pipe using joining techniques	<input type="checkbox"/>
	Join plastic tube, tubing & pipe using solvent welding or mechanical fittings	<input type="checkbox"/>
	Join steel tube, tubing & pipe using welding or threading methods	<input type="checkbox"/>
	Join cast iron pipe using couplings & various techniques	<input type="checkbox"/>
	Join specialized tube, tubing & pipe, as required, for specific systems	<input type="checkbox"/>
Installs, tests & services interior drainage, waste & vent (DWV) systems	Identify fixtures & surfaces needed for hydraulic load calculations using drawings & specifications	<input type="checkbox"/>
	Identify benchmarks to set piping grade & offsets accurately	<input type="checkbox"/>
	Select & layout piping according to site drawings, codes & specifications	<input type="checkbox"/>
	Test interior DWV systems to ensure proper drainage & venting	<input type="checkbox"/>
	Select & use testing equipment to detect faults & verify system operation	<input type="checkbox"/>

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## On-the-Job Checklist



	Level 2	Page 1/2
Red Seal Tasks	On-The-Job Duties	Completed
Performs routine trade activities	Layout final position of piping according to drawings, codes & job specifications	<input type="checkbox"/>
	Calculate tube, tubing & pipe lengths based on measurements & system design	<input type="checkbox"/>
	Install piping supports to ensure proper pipe alignment & support	<input type="checkbox"/>
	Install piping sleeves to protect pipes as they pass through walls & floors	<input type="checkbox"/>
	Assist in controlled flushing of non-critical plumbing components to practice removal of foreign matter	<input type="checkbox"/>
	Assist in securing penetrations or embedding components in non-critical areas following specifications	<input type="checkbox"/>
	Assist in marking excavation routes & verifying underground utility locations to prevent hazards	<input type="checkbox"/>
	Select & use tools for securing fire stopping devices to building structures according to specifications	<input type="checkbox"/>
Installs, tests & services interior drainage, waste & vent (DWV) systems	Calculate total hydraulic load for the building based on code tables & site conditions	<input type="checkbox"/>
	Calculate & lay out piping according to site specifications & code requirements	<input type="checkbox"/>
	Calculate piping grade & install supports & hangers to ensure stability	<input type="checkbox"/>
	Perform system checks & pressure tests to analyze performance & ensure compliance	<input type="checkbox"/>
	Perform maintenance & repairs, such as isolation, cleaning & replacing components, as required	<input type="checkbox"/>
Installs, tests & services plumbing fixtures & appliances	Install plumbing fixtures, such as sinks & toilets	<input type="checkbox"/>
	Install plumbing appliances, such as water heaters	<input type="checkbox"/>
	Test plumbing fixtures & appliances for proper operation	<input type="checkbox"/>
	Service plumbing fixtures & appliances	<input type="checkbox"/>
Installs, tests & services piping & components for hydronic systems	Install hydronic heating equipment, such as boilers & radiators	<input type="checkbox"/>
	Install hydronic cooling equipment, such as chillers & cooling coils	<input type="checkbox"/>
	Test hydronic heating & cooling equipment for efficiency	<input type="checkbox"/>
	Service hydronic heating & cooling equipment by troubleshooting & performing necessary repairs	<input type="checkbox"/>

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## On-the-Job Checklist



	Level 2	Page 2/2
Red Seal Tasks	On-The-Job Duties	Completed
Installs, tests & services hydronic heating & cooling equipment	Select & use tools & equipment for hydronic heating & cooling applications	<input type="checkbox"/>
	Determine placement of hydronic cooling equipment based on site conditions.	<input type="checkbox"/>
	Verify sequence of operations to ensure proper functionality	<input type="checkbox"/>
	Clean, replace & repair hydronic equipment & piping	<input type="checkbox"/>

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## On-the-Job Checklist



	Level 3	Page 1/2
Red Seal Tasks	On-The-Job Duties	Completed
Uses communication & mentoring techniques	Assess apprentices ability to perform tasks with increasing independence, providing constructive feedback as required	<input type="checkbox"/>
Installs, tests & services sewers	Plan layout & size piping for sewer systems	<input type="checkbox"/>
	Install maintenance holes & catch basins with proper alignment in sewer systems	<input type="checkbox"/>
	Install piping for sewer systems	<input type="checkbox"/>
	Test maintenance holes, catch basins & piping for leaks	<input type="checkbox"/>
	Service maintenance holes, catch basins & piping by repairing & maintaining components	<input type="checkbox"/>
Installs, tests & services interior drainage, waste & vent (DWV) systems	Design & size drainage systems	<input type="checkbox"/>
	Install & protect piping with proper excavation	<input type="checkbox"/>
	Prepare & install piping for testing	<input type="checkbox"/>
	Test interior DWV systems	<input type="checkbox"/>
	Verify operation & complete documentation	<input type="checkbox"/>
Installs, tests & services water service	Plan layout & size piping for water service systems	<input type="checkbox"/>
	Install piping for water service with proper alignment & support	<input type="checkbox"/>
	Install components for water service, such as meters, valves & backflow preventers	<input type="checkbox"/>
	Test water service piping for leaks & proper operation	<input type="checkbox"/>
	Troubleshoot & repair water service piping	<input type="checkbox"/>
Installs, tests & services piping & components for hydronic systems	Plan layout & size piping for hydronic systems	<input type="checkbox"/>
	Install piping & components for hydronic systems	<input type="checkbox"/>
	Test hydronic systems for leaks, pressure & functionality	<input type="checkbox"/>
	Service hydronic systems by performing maintenance & repairs	<input type="checkbox"/>

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## On-the-Job Checklist



	Level 3	Page 2/2
Red Seal Tasks	On-The-Job Duties	Completed
Installs, tests & services potable water distribution systems	Plan & size potable water piping	<input type="checkbox"/>
	Install piping for potable water distribution systems	<input type="checkbox"/>
	Set up components, such as valves & faucets	<input type="checkbox"/>
	Ensure cross-connection safety	<input type="checkbox"/>
	Test system for leaks & functionality	<input type="checkbox"/>
	Perform repair & maintenance on potable water systems	<input type="checkbox"/>
Installs, tests & services hydronic heating & cooling equipment	Install hydronic heating equipment, such as boilers & heat exchangers	<input type="checkbox"/>
	Install hydronic cooling equipment, such as air coolers & chillers	<input type="checkbox"/>
	Test hydronic heating & cooling equipment for functionality & efficiency	<input type="checkbox"/>
	Service hydronic heating & cooling equipment as needed	<input type="checkbox"/>
Installs, tests & services other specialized systems	Size & plan layout for compressed air piping	<input type="checkbox"/>
	Install piping for industrial water systems	<input type="checkbox"/>
	Verify materials, tools & installation procedures for equipment setup	<input type="checkbox"/>
	Test HVAC system for leaks & pressure	<input type="checkbox"/>
	Replace faulty valve in irrigation system	<input type="checkbox"/>

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## On-the-Job Checklist



	Level 4	Page 1/2
Red Seal Tasks	On-The-Job Duties	Completed
Uses communication & mentoring techniques	Assess apprentice suitability to trade during probationary period	<input type="checkbox"/>
Installs, tests & services sewage treatment systems	Plan layout & component placement for a septic system	<input type="checkbox"/>
	Install tanks, piping & pumps for a treatment system	<input type="checkbox"/>
	Perform flow & leak testing on sewage treatment units	<input type="checkbox"/>
	Diagnose & repair faults in a malfunctioning treatment system	<input type="checkbox"/>
Installs, tests & services private water pressure systems	Plan & size piping for a complex water pressure system	<input type="checkbox"/>
	Oversee installation of advanced water supply equipment	<input type="checkbox"/>
	Determine & assemble private water pressure system components, ensuring compliance with codes & specifications	<input type="checkbox"/>
	Troubleshoot & optimize malfunctioning water pressure systems	<input type="checkbox"/>
	Interpret client information & inspect private water pressure system components for service needs	<input type="checkbox"/>
Installs, tests & services water treatment systems	Size piping for water treatment systems according to design requirements	<input type="checkbox"/>
	Install water treatment systems, such as filtration units & softeners	<input type="checkbox"/>
	Test water treatment systems for performance & leaks	<input type="checkbox"/>
	Service water treatment systems by conducting regular maintenance & repairs	<input type="checkbox"/>
Installs, tests & services process piping systems	Plan layout & size piping for process piping systems	<input type="checkbox"/>
	Install piping for process piping systems	<input type="checkbox"/>
	Install components for process	<input type="checkbox"/>
	Perform comprehensive tests on process piping systems for functionality & safety	<input type="checkbox"/>
	Lead the servicing & optimization of complex process piping systems	<input type="checkbox"/>

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## On-the-Job Checklist



	Level 4	Page 2/2
Red Seal Tasks	On-The-Job Duties	Completed
Installs, tests & services other specialized systems	Lead design & layout for complex compressed air systems	<input type="checkbox"/>
	Oversee installation of specialized piping systems, such as fuel/gas	<input type="checkbox"/>
	Verify materials, tools & installation procedures to ensure compliance with codes & site requirements	<input type="checkbox"/>
	Conduct full system tests & troubleshoot issues in specialized systems	<input type="checkbox"/>
	Lead service & optimization of complex irrigation or HVAC systems	<input type="checkbox"/>

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## On-the-Job Checklist



### Information Regarding the Checklist

Saskatchewan Apprenticeship and Trade Certification Commission's (SATCCs) On-The-Job Checklist provides a complete list of trade-specific Red Seal tasks for apprentices to complete under the supervision of a journeyman. This work should be completed prior to attending the technical training level under which the duties are listed (e.g. Level 1 completed prior to attending Level 1 technical training).

Completing this checklist will ensure that apprentices are exposed to the full scope of a particular Red Seal trade throughout their apprenticeship program. It will also help prepare apprentices for each level of technical training by performing work on-the-job relating specifically to topics covered later on. The trade-specific tasks listed have been reviewed by certified journeymen in Saskatchewan for their accuracy and have been set to an appropriate skill level.

An apprentice spends approximately 85% of their apprenticeship term training on-the-job. It is the both the apprentice and the employer's or journeyman's responsibility to supervise an apprentice's practical skills development during their program.

To promote transparency and consistency, this document aligns with the 2023 Plumber Red Seal Occupational Standard (Employment and Social Development Canada).

A complete version of the Occupational Standard can be found at [www.red-seal.ca](http://www.red-seal.ca)

#### **Saskatchewan Apprenticeship & Trade Certification Commission (Regina)**

2140 Hamilton St Regina SK, S4P 2E3

Tel: (306) 787-2444

Toll Free: 1-877-363-0536

Website: [www.saskapprenticeship.ca](http://www.saskapprenticeship.ca)

#### **Saskatchewan Apprenticeship & Trade Certification Commission (Saskatoon)**

603 45<sup>th</sup> Street West Saskatoon, SK S7L 5W5

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#### **District Offices**

Estevan (306) 637-4930

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**All work performed in this checklist is to be done under the supervision and guidance of a certified journeyman**

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