

Sprinkler Fitter

On-the-Job Checklist



	Level 1	Page 1/2
Red Seal Tasks	On-The-Job Duties	Completed
Performs safety-related functions	Follow safety procedures & use signage to keep the worksite safe	☐
	Use PPE & safety gear as per regulations & manufacturer guidelines	☐
	Install & remove LOTO equipment as per site regulations	☐
	Work in confined spaces, assessing conditions & hazards first	☐
Uses & maintains tools & equipment	Inspect & use hand tools safely & effectively	☐
	Maintain & operate power tools per manufacturer guidelines	☐
	Verify equipment calibration for accurate measurements	☐
	Use ladders & scaffolding, following regulations	☐
	Handle rigging & lifting gear with proper signals & checks	☐
	Set up & store soldering tools with required permits & procedures	☐
Organizes work	Identify applicable codes & standards for each task	☐
	Review drawings to understand equipment & components	☐
	Refer to technical manuals for equipment information	☐
	Plan materials & delivery schedules for job readiness	☐
	Check delivered materials for accuracy & damage	☐
	Layout sprinkler system based on site needs & requirements	☐
Uses communication & mentoring techniques	Practice active listening & 2-way communication to ensure mutual understanding	☐
	Train apprentices by stating objectives, demonstrating skills & providing feedback	☐

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	Level 1	Page 2/2
Red Seal Tasks	On-The-Job Duties	Completed
Prepares pipe, tube & fittings for installation	Cut pipe & tubing using tools & specifications for accurate measurement & reaming	☐
	Choose pipe schedule & tools based on NFPA standards & project standards	☐
	Use cutting oil & cleaning techniques to thread pipe	☐
	Select method for grooving pipe & verify groove depth	☐
	Find centre of pipe & tube, drill & file hole & recover cut-out disc	☐
	Grind & shape pipe ends using beveling & chamfering techniques	☐
	Prepare & inspect fittings	☐
Installs pipe, tube & fittings	Install steel piping by verifying layout & spacing to meet NFPA standards & site requirements	☐
	Install plastic piping verifying layout & spacing based on NFPA standards & site requirements	☐
	Install copper piping using materials & layouts as per NFPA standards & site requirements	☐
	Select & mix paint & epoxy & paint over wrench marks & bare threads	☐
Installs piping components	Identify sprinklers & sprinklers temperature classification	☐
	Inspect & install sprinklers, apply thread lubricant & position components	☐
	Select sleeve material, diameter & length, attach to forms, cut holes for sleeves & select & apply fire stopping	☐
	Determine hanger & rod sizes & select supports & fastening components	☐
	Determine drain locations & select tools for installation	☐
Installs water-based systems	Use tools to install piping aligned with NFPA standards	☐
	Connect & test wet systems for water supply & integrity	☐
	Manage & test dry systems for antifreeze levels, venting & pressure	☐
	Install antifreeze systems with correct valves & complete system testing	☐

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	Level 2	Page 1/2
Red Seal Tasks	On-The-Job Duties	Completed
Organizes Work	Use codes & standards to choose methods & perform calculations	☐
	Identify install needs & locate system components	☐
	Apply change orders to align work with updated requirements	☐
	Plan job steps by scheduling & coordinating with other trades	☐
	Organize work site by setting up & storing materials	☐
	Adjust system layout & hanger placement for accurate installation	☐
Commissions Systems	Help commission water systems by verifying test completion before final connections	☐
	Assist in testing fire systems to ensure compliance with NFPA standards	☐
Installs underground water supplies	Follow safe excavation practices with proper trench layout, utility checks & backfill selection (Not Common Core)	☐
	Apply NFPA standards for fire water piping materials, assembly & protection (Not Common Core)	☐
	Support flange, fitting & valve installation to ensure pressurization & water discharge	☐
Installs fire department connections	Confirm layout & sizing by checking drawings for compliance with AHJ & NFPA standards	☐
	Help install fire connections by choosing tools & verifying thread compatibility	☐
Installs piping components	Install seismic bracing using tools & specifications to stabilize piping per NFPA standards	☐
	Install & test cross-connection controls in line with municipal & AHJ regulations	☐
	Install system drainage piping by fabricating & aligning components to site requirements	☐

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	Level 2	Page 2/2
Red Seal Tasks	On-The-Job Duties	Completed
Installs water-based systems	Help install preaction/deluge systems by selecting tools, measuring & assembling components to specifications	☐
	Support standpipe system setup by installing parts, foam tanks & testing for NFPA compliance	☐
Installs detection devices	Help install pilot lines & test pressure according to NFPA standards	☐
	Support HADS setup by selecting tools, installing components & testing to meet specifications & standards (Not Common Core)	☐
Installs signal-initiating devices	Help install alarm-initiating devices & test their function as per NFPA standards	☐
	Support setup of supervisory devices & confirm operation according to code & manufacturer specifications	☐

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On-the-Job Checklist



	Level 3	Page 1/2
Red Seal Tasks	On-The-Job Duties	Completed
Organizes Work	Use charts & tables to apply relevant codes & regulations	☐
	Draft on-site drawings to support coordination & track progress	☐
Commissions Systems	Support water system commissioning by helping with acceptance tests & confirming regulatory compliance	☐
	Assist in fire system commissioning by checking components, valves & detection device	☐
Uses communication & mentoring techniques	Explain technical information clearly to both tradespeople & non-tradespeople	☐
	Mentor apprentices by tracking progress, giving feedback, & supporting training	☐
Installs fire pump units	Help determine fire connection setup by verifying layout, pump placement & bypass needs per NFPA standards	☐
	Support equipment installation by checking tank components & choosing the right tools for NFPA compliance	☐
Installs private water supply systems	Help set up water tanks by locating, anchoring, filling & applying corrosion protection according to standards	☐
	Assist with related equipment installation by checking components & selecting tools to meet NFPA standards	☐
Water-Based Systems	Help install foam systems by setting up piping, tanks & valves & testing for function & pressure per NFPA standards	☐
	Help install water mist & hybrid systems by fabricating piping, installing devices & performing pressure tests	☐
Installs specialty fire suppression systems	Install special hazard systems, such as chemical, clean agent & CO ₂ , by setting up piping, nozzles, cylinders & testing for compliance	☐
	Determine type & location of portable extinguisher & install confirming compliance with NFPA standards	☐
Installs detection devices	Install spark detection systems by setting detectors, assembling parts, adding piping & testing for NFPA compliance (Not Common Core)	☐
	Set up air sampling systems by installing piping & components per manufacturer & AHJ guidelines (Not Common Core)	☐
	Install smoke & heat detection systems by using tools, placing devices & verifying operation & compliance (Not Common Core)	☐

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On-the-Job Checklist



	Level 3	Page 2/2
Red Seal Tasks	On-The-Job Duties	Completed
Maintains & repairs fire protection systems	Troubleshoot fire protection systems by identifying issues, determining solutions & informing the owner as per NFPA standards	☐
	Disable & disarm system, repair or replace deficient components & verify repair	☐
	Perform routine maintenance by assisting with system shutdown, maintenance tasks & deficiency reporting as per NFPA standards	☐
Inspects & tests fire protection systems	Disable & disarm fire protection system, perform required tests & complete all documentation according to NFPA standards	☐
	Perform scheduled inspections using inspection documents & identify any abnormalities & deficiencies	☐
	Inspect portable fire extinguishers by verifying hoses & nozzles are intact, hydrostatic tests are up-to-date & gauge pressure & cylinder weight is within acceptable operating parameters	☐

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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 2017 Sprinkler Fitter Red Seal Occupational Standard (Employment and Social Development Canada).

A complete version of the Occupational Standard can be found at www.red-seal.ca

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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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