

**CIVIL SERVICE DEPARTMENT
2026 PROPOSED EXAMINATION BIBLIOGRAPHY FOR FIREBOAT PILOT**

PROPOSED: Feb 2, 2026

The written examination for Fireboat Pilot will be held on Monday, June 2, 2026 at location to be determined.

The proposed bibliography of study materials on which the written examination, charting exercise(s), and/or practical will be based on is outlined below. Interested parties have 30 days from the date of this notice to review the proposed bibliography and submit comments by 1000 on March 4, 2026. Please submit comments to the Fire & Police Exams Unit via email to: yoshiko.gracematsui@seattle.gov.

Candidates who pass the written examination (including subcomponents) will be scheduled for the practical examination, tentatively scheduled for August 24 – 28, 2026 (times and locations to be announced). Candidates must attend more than one day during this period. The practical examination exercises will be based on the 1) skills and abilities identified by the job analysis as critical for successful job performance as a Fireboat Pilot, 2) information from the Promotion Development Committee who serve as subject matter experts, and 3) reading materials in the bibliography. Therefore, the assessment center topics are not limited to materials on the bibliography.

Please contact the Civil Service Department Public Safety Exams Unit at Yoshiko.gracematsui@seattle.gov or (206) 615-0581 if you have any questions on the bibliography or the exam process.

Please view the Classification Specification for the Fireboat Pilot for the general scope of job duties and required knowledge, skills, and abilities.

GENERAL SCOPE: Boat handling, piloting, seamanship, standard and electronic navigation, bridge resource management, local knowledge, fireboat equipment, electronics, marine radios and their usage, emergency operations including search and rescue operations, marine firefighting, and salvage. Verbal and written communication, supervision of fireboat crew, interaction with personnel and members of the public, and compliance with Citywide policies. Maritime rules and regulations. Vessel characteristics of the SFD fireboats.

A bibliography of study material on which the written examination will be based includes the following:

Source Title	Contents
Bridge Resource Management for Small Ships, Daniel S. Parrot, 2011	All
Chapman Piloting and Seamanship, 68 th Edition	All (Excluding chapters 2, 3, 4, 5, 19, 21, 24, 25)
Detroit Diesel Marine Electronic Controls Operating Instructions	All

Dutton's Nautical Navigation, Naval Institute Press, 15th Edition	Chapters 1 – 14, 17, 23, 36
Fireboat 1 and Fireboat 2 C188 Engine Duty Cycles Seattle Fire	All
Fire Service Discrimination & Harassment Toolkit by National Volunteer Fire Council, Women in Fire, 2023	All
Furuno Operator's Guide #FA-150	All
Furuno Operator's Manual #FA-150	Pages iii - xiii and Chapter 1-Operation
Furuno Operator's Manual, FAR2127, 2107-BB	All
Furuno Operator's Manual, NavNet3D MFDBB	All
Furuno User's Manual, NavNet3D MFDBB	All
Hamilton Jet HJ364 MECS Control Manual R1A5	Chapter 3, System Operation
Hamilton Jet HJ364 Product Manual	Section 2
Introduction to Electronic Chart Navigation: With an Annotated ECDIS Chart No. 1 by David Burch. Starpath Publications, Aug. 2022	All
L3 Protec - M AIS Installation and Operation Manual	Section 1- Introduction, Section 3-Operation, Appendix A – STEDS Functionality
A Leaders Guide to Unconscious Bias: How To Reframe Bias, Cultivate Connection, and Create High Performing Teams Pamela Fuller, Mark Murphy, Anne Chow, Simon & Schuster (2020)	Chapters 1-8
Marine Firefighting for Land-Based Firefighters, IFSTA, 3 rd Edition 2019	All
NOAA Charts: Publisher's Note: These charts are NOT updated weekly and do NOT include all the latest Notice to Mariners corrections.	#18447, 30th Ed., Sept 2012 #18449, 21st Ed., Nov 2019 #18450, 20th Ed., Jan 2017 #18473, 10th Ed., Apr 2020 #18474, 11th Ed., Dec 2015
Northwest Marine Weather, by Jeff Renner, 1993	All
Policies and Operating Guidelines, SFD (REVISED November 2025, pdf only)	All Operating Guidelines listed below and all Policies that relate to them.
	P 1007 -Code of Conduct (Policy only) 3003 – EEO 3004 – Ethics 3017 – Race and Social Justice Initiative
Puget Sound Harbor Safety Plan, Marine Exchange – January 2023 January 2	All
Radar Observer Manual, 7th Edition, MET 2024	All
SOGS	Marine Fire (11-18-2025) PPT - Marine Fire – Operations v14 Rescue – Water (1-17-2022) SOGRD – Rescue – Water (1-17-2022)
Seattle Municipal Code	Harbor Code Title 16 - All
The Ship Handler's Guide, Capt. R. W. Rowe, 1998	All (Excluding chapter 12)

U.S. Coast Guard Light List, Volume VI, 42024–	Cover through xxxix (PDF page number 1-49), 95pages 146-151, 159-165
U.S. Coast Guard Navigation Rules Handbook - International, Corrected through LNM Week 10/2410/24	All
U.S. Coast Guard Search and Rescue: A Guide for Boat Coxswains 01 October 2006 1 st edition	All
U.S. Coast Guard VTS Puget Sound, User’s Manual – UPDATE 2024	All (Excluding Section 4)
U.S. Coast Guard 10: 2025 (6th ed, without weekly LNM corrections)	Chapter 1 - All Chapter 2 subpart 117.1 through 117.41 and 117.1041, 117.1051 Exclude Subpart C, Exclude Part 161 - VTS manual, Exclude Part 164. Chapter 8 Pages 311 through 318
Vessel Characteristics, Seattle Fireboats --This is the list of characteristics that test questions are drawn from, not other documents.	All, attached
ZF 3000 Marine Gear Operating Instructions	Sec. 5.2 Shift Procedure, Sec. 5.3 Trailing Operation, Sec. 6.1 Trolling
ZF BW 460 Series Marine Gear Operating Instructions	Sec. 7.1 Normal Operation, Sec. 7.2 Trailing Operation, Sec. 9 - 9.12 Trolling
Zip Wake, Series E, Operator's Manual	All

Please contact the at 615-0581 or yoshiko.gracematsui@seattle.gov if you have any questions on the bibliography or the exam process.

Seattle Fireboats - Vessel Characteristics

	LESCHI	CHIEF SEATTLE	FB1	FB2
Overall length	108'	96'-6"	50'	50'
Beam	27'	23'	16'-6"	16'-9"
Height (Air Draft, ft)	50' mast up / 39'-6" down	30'-4"	20'	21'-4 1/2"
Draft	10'	7'	30"	30"
Speed kts	14	22	30	42
Fuel gal	20,940	1508	486	600
Water gal	1200	2 @ 50	42	45
Foam gal	6000	950	204	200
Hull type	Displacement	Semi-displacement	Planing hull	Planing hull
Weight tons	303	208	23.8	23.8
Propulsion	Twin Screw	Twin Screw	2 - 364 Hamilton jet	2 - 364 Hamilton jet
Engine model	MTU 8V 4000, M71	MTU 10V 2000, M93	Cat C-18	Cat C-18
Engine HP	1556	1500	715	1001
RPM rating	2000	2450	2300	2300
Transmission	ZF 4610	ZF 3000	ZF 350	ZF 500
Prop Size	72", 4 blade	42", 5 blade		
Thruster type	Key Power Hydraulic	Key Power Hydraulic		
Thruster power	Bow – 200 hp, Stern – 100 hp	2 – 50 hp		
Alternator amps			2 – 270 A	2 – 105 A
Generator type	Northern Lights	Northern Lights	Northern Lights	Northern Lights
Generator	2 – 99 kw	2 – 65 kw	1 – 10kw	1 – 9kw
Generator power	480V AC 3 phase	480V AC 3 phase		
Pump Engine type	2 – MTU 8V 4000, M71	2 – Cat C18	Hale BG8 centrifugal. off front main engines	Hale BG8 centrifugal. off front main engines
Pump Engine HP	1556	715		
Pump Engine RPM	2000	2100		
Pump Capacity GPM	4 – 5000	4 – 2500	2 – 3000	2 - 3000
Monitors	8	6	2 – 2000	2 - 2000
4" Ports	12	10	4	4
2 1/2" Ports	4		4	4
Foam Monitors	8	5	Bow/fwd dschrg	Bow/fwd dschrg
CBRNE	Yes	No	Yes	Yes
Deconn	Yes	Yes	Yes	No

FB1 & FB2 C18 ENGINE DUTY CYCLES

	Fireboat 1 (C-Rated)	Fireboat 2 (E-Rated)
Horse Power	715 HP	1001 HP, Detuned to 927 HP
Max Rated RPM	2100	2300
Max Full Throttle Time	50% of the time	5% - 8% of the time
Max Load Factor	80%	30%
Warm Up Time	3 - 5 Minutes @ Idle	3 - 5 Minutes @ Idle
Additional Warm Up	Increase to ½ max rated RPM until the engine reaches temp. - 140 degrees F.	Increase to ½ max rated RPM until the engine reaches temp. - 140 degrees F.
Load Operation	To maintain engine efficiency and performance, apply between 30% & 70% load to the engine on an hourly basis.	To maintain engine efficiency and performance, apply between 30% & 70% load to the engine on an hourly basis.
Stopping the Engine	<ol style="list-style-type: none"> 1. Reduce the engine rpm to low idle. Shift the marine transmission to the NEUTRAL position and secure the vessel. 2. Increase the engine rpm to no more than 50 percent of the rated rpm for three to five minutes in order to cool the engine. Reduce the engine rpm to low idle. 	<ol style="list-style-type: none"> 1. Reduce the engine rpm to low idle. Shift the marine transmission to the NEUTRAL position and secure the vessel. 2. Increase the engine rpm to no more than 50 percent of the rated rpm for three to five minutes in order to cool the engine. Reduce the engine rpm to low idle.