

U.S. Department of Labor Employment and Training Administration Office of Apprenticeship Training, Employer and Labor Services (OATELS) Washington, D.C. 20210	<u>Distribution:</u> A-541 Headquarters A-544 All Field Tech A-547 SD+RD+SAC+; Lab.Com	Subject: New Apprenticeable Occupation – Firer, Marine <u>Code:</u> 200
Symbols: DSNIP/JLP		Action: Immediate

PURPOSE: To inform the Office of Apprenticeship Training, Employer and Labor Services (OATELS), Bureau of Apprenticeship and Training (BAT) Staff of a new apprenticeable occupation:

Firer, Marine
RAIS Code: 1052
O*NET Code: 51-8021.01
Training Term: 2,115.5 hours
Type of Training: Time – based

BACKGROUND: The Firer, Marine tends boilers and burners aboard marine transportation vessels.

A copy of the Work Process and Related Technical Instruction schedules are attached for your review.

If you have any questions, please contact the subject matter expert, James Penny at (202) 693-3815.

ACTION: BAT staff should familiarize themselves with the attached.

Attachment

WORK PROCESS SCHEDULE
FIREMAN, OILER & WATERTENDER (FOWT) (water transportation)
O*NET Code: 51-8021.01 RAIS Code: 1052

ON-THE-JOB TRAINING

<u>WORK PROCESS</u>	<u>HOURS</u>
1. Vessel Familiarization	16
Basic Seamanship (6)	
Personal Safety & Responsibility (3)	
Emergency/Disaster Preparedness (1)	
Vessel Familiarization Tour (6)	
2. Vessel Operations and Maintenance	29.5
Reporting Aboard, Vessel Safety and Sea Projects (6)	
Basic Lathe and Tool Familiarization (4.5)	
Basic Engine Operations and Maintenance (4)	
Engine room Operations and Watchstanding (4)	
Valve Maintenance (3)	
Paints and Coatings (5)	
Fueling Operations and Environmental Procedures (3)	
3. Galley Familiarization	9
Equipment Identification (1)	
Knife Basics (2)	
Breakfast Cookery (2)	
Salad Preparation (2)	
Breads/Review (2)	
4. First Aid & Cardio-Pulmonary Resuscitation (CPR).....	11
Breathing Emergencies (2)	
Adult CPR (4)	
First Aid (3)	
Practical Evaluations (2)	
5. Apply Skills of Basic Fire Fighting	9
Breathing Apparatus Practical (1)	
Practical Exercises and Drills (8)	
6. Apply Skills of Water Survival	26
Propulsion Systems (10)	
Lifeboat Equipment (1)	
Types of Davits (9)	
Launching Procedures for Life rafts (2)	
Using the Life Raft (2)	
Survival Methods (1)	
Signaling (1)	

7. Physical Education.....	35
Strength Training (11)	
Calisthenics (17)	
Cardiovascular Endurance (6)	
Teamwork and Safety (1)	
8. Engine Utility (Practicum).....	38
9. Rating Forming Part of an Engineering Watch/FOWT Course at Paul Hall Center (Practicum).....	96
Subtotal	269.5

On-board Work Process Schedule

1. Perform 6 months of Engine room Watch standing Time (See Attachment A for Performance Standards)	1022
2. Maintains machinery in a clean environment by wiping oil, dirt and debris	120
3. Lubricates machinery and preserves equipment.....	120
4. Stand auxiliary machinery lower level man or engine roving watch	180
Subtotal.....	1846
Grand Total.....	2115.5

RELATED TECHNICAL INSTRUCTION SCHEDULE
FIREMAN, OILER AND WATERTENDER (FOWT) (water transportation)

O*NET Code: 51-8021.00 RAIS Code: 1052

Phase I (Twelve-Week Vocational Curriculum)

1. Shipboard Sanitation	20
2. Galley Familiarization.....	12
3. First Aid & Cardio-Pulmonary Resuscitation (CPR).....	10
4. Basic Fire Fighting	21
5. Industrial Relations I.....	20
6. Water Survival	34
7. Vessel Familiarization	42

8. Vessel Operations and Maintenance	17.5
9. Physical Education.....	5
10. Social Responsibilities	27
TOTAL HOURS	208.5 hours

Phase III (Specialized Engine Department Training)

11. Engine Utility	140
12. Propulsion plant fundamentals motor	20
13. Propulsion plant fundamentals steam	20
14. Engine room tools and their uses	26
15. Propulsion plant auxiliaries	30
16. Engine room safety hearing conservation.....	4
17. Engine room safety heat stress	4
18. Engine room electrical safety.....	4
19. Lock Out Tagout.....	4
20. Machinery preservation.....	20
21. Engine room record keeping.....	8
TOTAL HOURS	140 hours

Phase IV

Rating Forming Part of the Engine Room

22. Watch Oiler	144
23. Boiler Components.....	20
24. Steam and water cycle and components.....	40
25. Diesel Engine Construction.....	10
26. Diesel Engine Components.....	10
27. Fuel Oil and Lube Oil Systems.....	10

28. Auxiliary systems.....	10
29. Remote Control Equipment.....	10
30. Watch standing and simulators.....	20
31. Starting and securing propulsion plant.....	10
32. Practical demonstration and exams	4
TOTAL HOURS.....	144 Hours