

parts which have been disassembled for repairs. Helping in making repairs such as rolling and installing boiler tubes. Assisting in the assembly, disassembly, and repair of engines and auxiliaries by carrying and holding parts, fetching tools, and performing simple repairs with common hand tools under close supervision.

b. Sweeping and cleaning engine and boiler rooms. Cleaning boiler tubes, fire boxes, hot wells, filters and oil, and grease extractor and pits.

c. Chipping and painting steel plates, angles, beams, and machinery.

d. Receiving instructions in the duties of fireman and oiler and standing their watches during lunch and rest periods under close supervision of the watch engineer, requiring a knowledge of the location, general use, and purpose of lubricants, oil lines, valves, grease fittings, cleaning supplies, etc.

**2. Factor evaluation.—a. Experience and training—point value 120.**

(1) *Experience.*—Previous experience in cleaning machinery and assisting with mechanical repairs or as a lower grade wiper is desirable but not essential. The ability to learn common practices and the use of tools and materials associated with boiler and engine room activities and to understand and follow specific instructions is required.

(2) *Education.*—The ability to read, write, speak, and understand the English language is required.

(3) *Training.*—Training is given in the cleaning of engine room, boiler room, and machinery; operation of oil burners, controls, boiler water controls, machinery layout, safety requirements; the location, use, and nomenclature of tools, materials, and lubricants; and normal operating procedures.

**b. Responsibility—point value 100.**

(1) *Supervision received.*—Workers at this level are under close, direct supervision of the watch engineer when learning and performing new tasks. Thereafter, they work under immediate supervision, but without direct or close guidance when performing routine wiping duties. The firing and oiling work is always under

**WIPER, GRADE 5**

*Point value*

Experience and training -----	120	Physical demand-----	140
Responsibility -----	100	Working conditions----	175
Mental application-----	35	Total -----	570

**1. Work performed.**—Under the immediate supervision of the engineer on watch, wipers perform work involved in oiling machinery and general housekeeping in the boiler and engine rooms. Workers receive detailed instructions when tasks are assigned and receive continual or intermittent supervision during performance. As training progresses, workers perform the duties listed below, subject to intermittent inspection. Completed work is checked for compliance with instructions. The performance of the following duties is typical of this level:

a. Removing excess oil and grease from engines and auxiliaries. Polishing bright metals in the engine room. Cleaning engines with grease solvents when the plant is not in operation. Cleaning

close supervision, since they are being trained in these duties. The work procedures are specified in detail and the workers receive help and advice from their supervisor on any problems they encounter. Work is checked upon completion.

- (2) *Supervision exercised.*—None.
- (3) *Tools, materials, and equipment.*—Workers are responsible for cleaning and caring for small hand tools and materials. The possibility of damage to tools and equipment is small.
- (4) *Safety.*—Workers are required to comply with safety rules and regulations when working on slippery floors, around moving machinery, and in the boiler and engine room.

**c. Mental application—point value 35.**—Workers concentrate for short periods while receiving and carrying out instructions and while learning the duties of fireman and oiler. Eye-hand-foot coordination is required while performing work around moving machinery.

**d. Physical demand—point value 140.**—The preponderant tasks at this level require light to moderate effort in cleaning, wiping, chipping, and painting machinery, and climbing to oil machinery, and infrequent strenuous effort such as lifting heavy parts when assembling and disassembling equipment and assisting in making repairs.

**e. Working conditions—point value 175.**—Wipers work either in the boiler room where temperatures are abnormally high, or in the engine room where there is direct contact with moving machinery. There is danger of burns from steam lines and boilers and danger of cuts, bruises, electric shock, and broken bones while working around the machinery. There is also danger of falls on slippery floors and danger of drowning in case of accidents. There is exposure to paint fumes and hazards such as eye injuries while chipping paint and rust.