

a. Operating motorboat (40 to 60 feet in length) to transport personnel and supplies. Starting engine, adjusting speed and direction, steering boat alongside moving plant, or moving craft in various waters.

b. Operating boat on inspection trips which may involve remaining out overnight, requiring a high degree of skill in operating in swift or shallow water to make hydrographic surveys, place channel markers, or gauges; and requiring familiarity with channel locations and markers in the areas worked; and a knowledge of navigation rules for operating boats in traffic in the waterways traveled.

c. Keeping boat in operating condition by making minor repairs; filling boat with gas, water, oil; checking engines; visually inspecting hull to ascertain watertightness and seaworthiness; protecting craft in inclement weather. During periods of major overhaul, assisting shop personnel in making repairs by cleaning parts; dismantling engine; removing pistons, bearings, and rods; dismantling clutch; and cleaning all parts in preparation for higher skilled mechanical work; making micrometer measurements; honing cylinders; and upon completion of repairs, running motors slowly for "breaking-in" purposes.

d. Supervising one deckhand if assigned to the boat.

**2. Factor evaluation.—a. Experience and training—point value 235.**

(1) *Experience.*—Must possess a motorboat operator's certificate, and must have a working knowledge of upkeep of motors and ability to handle high speed craft in waters to be navigated with skill and dispatch. Normally, worker is required to have had at least 1½ years' experience in operating smaller, slower boats.

(2) *Education.*—Operators must be able to read, write, and speak the English language.

(3) *Training.*—Workers receive orientation in the operation of the survey boat from an operator of higher grade.

**b. Responsibility—point value 240.**

(1) *Supervision received.*—Operators receive instructions from the area operat-

**SURVEY BOAT OPERATOR, GRADE 15**

<i>Point value</i>	<i>W-10</i>
Experience and training-----	235
Responsibility-----	240
Mental application-----	140
Physical demand-----	120
Working conditions-----	140
<b>Total-----</b>	<b>875</b>

**1. Work performed.**—Under the general supervision of the party chief or area operating official, survey boat operators operate a motorboat (usually 40 to 60 feet in length) to transport personnel and materials to and from floating plant or survey sites and for the purpose of inspecting works of construction and miscellaneous sites of proposed construction and conducting hydrographic and reconnaissance surveys. The performance of the following duties is typical of this level:

ing official or survey party chief as to the time and place to pick up personnel and materials, and the points of delivery; the areas to be covered and the points to be visited on inspection trips; the areas to be covered and the courses to be followed when making surveys. Survey boat operators are responsible entirely for operating, navigating, and maneuvering the boat; for determining and following courses when making inspection trips; and when making surveys, for maintaining exact courses and speeds in swift or shallow water and under difficult weather conditions.

- (2) *Supervision exercised.*—Operators may supervise one deckhand, but the presence or absence of this supervision does not affect the rating of this factor.
- (3) *Tools, materials, and equipment.*—Operators are responsible for the proper care of the boat and all equipment thereon.
- (4) *Safety.*—Operators are responsible for enforcing all safety regulations and for operating the boat in such a manner as to prevent accidents resulting in loss of life of the passengers carried.

**c. Mental application—point value 140.**—

These workers must give continuous attention to the condition of the boat and must be constantly alert to the safe operation of the boat in traffic and to the safety of the passengers. When operating with survey parties, must give continuous attention and maintain constant alertness toward keeping the boat on assigned ranges at a definite speed as designated by the party chief. On some reaches where survey work is being performed, some difficulty is experienced in this maneuvering due to wind, wave action, and various current conditions. Distances involved may be as much as 100 miles from the home port, and trips may be made in all kinds of weather and at night, requiring extreme mental alertness.

**d. Physical demand—point value 120.**—Physical effort is expended when steering vessels, loading and unloading supplies and materials, and making repairs and adjustments to the engine and hull. The physical demand at this level differs

from that of the launch operator, grade 9, in that a smaller percentage of time is spent in loading and unloading supplies and materials and the absence at this level of the performance of such miscellaneous duties as painting, chipping, and handling lines on larger plant.

**e. Working conditions—point value 140.**—

Operators work in an enclosed cabin when steering vessel. They work on deck and in cramped quarters when making repairs to deck and engine. There is exposure to traffic hazards, especially in foggy weather and at night, and there is danger of falling overboard and drowning. Working conditions at this level differ from those of the launch operator, grade 9, principally in that a lesser percentage of time is spent in loading, unloading, and other manual duties with consequently less exposure to injuries.