

## **Engineering Equipment Operator, WG-5716-10**

### **A. MAJOR DUTIES:**

Operates a variety of gasoline or diesel powered engineering and construction equipment with wheeled or crawler type traction and attachments. Work is performed on irregular terrain, close to buildings, drop-offs, or other obstructions. Surfacing to fine specifications is normally performed on flat or rolling terrain. Rough grading to general contour is also performed.

Performs the following duties which are typical but not all inclusive: operates crawler tractor or motor grader to excavate, backfill, grade, or level earth to rough specifications on such projects as breaking ground for trails, roads, canals, tunnels, dams, or construction sites. Moves earth on steep slopes, graded curves and shoulders, rocky or soft ground, hilly forests, and other surfaces with similar rough features. On flat or rolling terrain, operates crawler tractor or motor grader in grading surfaces, compacting soils, and/or spreading surfacing materials to exact specifications. ( e.g., Engineering specifications on dikes). Such fine work, may require operating close to buildings, towers, trees, drop-offs, waterlines, rocks, etc. Adjusts attachments for proper positioning and working order usually without stopping the power unit or the equipment. Services, checks, and fuels equipment before operation, checks and services attachments to be used. Performs daily preventative maintenance and makes repairs and adjustments to equipment and attachments to equipment. This includes, but is not limited to, replacing chains and belts, cables, lubrication, oil and filter changes, battery checks, changing dozer teeth, and safety inspections.

May operate farm tractors with auxiliary equipment for mowing, farming, maintaining dikes, and other related activities. In addition, may be called upon to perform tasks involved with biological census work, fire suppression, building maintenance, and other miscellaneous duties not requiring any special skill, training, or experience.

### **TYPES OF EQUIPMENT:**

Is proficient in operating the following equipment: dozers (above the D-6 size); loader (front end); loader/backhoe; dump truck; straight truck (hauling small equipment); truck/tractor (hauling large equipment outside the local commuting area); farm tractors with implements; excavator; road grader; draglines; and earthmovers.

### **WORK SPECIFICATIONS:**

Conducts disking, chopping, mowing, rotovating, digging, loading and leveling to exact specifications based on engineering drawings read and implemented by the operator.

## MAINTENANCE AND REPAIR:

Services equipment by: checking fluids; lubricating; performing safety checks; replacing hoses, belts, fuses, light bulbs; performing regular scheduled service including changing fluids and filters; replacing of components that require dismantling of the equipment such as radiators, hydraulic tanks, alternators, tracks, and excavator bucket teeth; and rebuilding components.

## B. SKILL AND KNOWLEDGE:

Is highly skilled in the safe operation of a wide variety of equipment in order to grade surfaces to rough or fine specifications by adjusting attachments while the equipment is in motion. Must be able to operate in all types of terrain and in confined areas. Since the operator plans basic approaches to arrangements in all types of terrain, he/she must have a substantial knowledge of soil composition and confirmation, and must know the purpose and limitations of a wide variety of attachments. In addition, good foot, hand, and eye coordination is required to operate controls simultaneously, the operator must have good depth perception and a high degree of concentration to cope with rough terrain. Must be able to service and perform preventative maintenance and minor repairs on equipment.

## C. RESPONSIBILITY:

A high degree of skill and concentration is necessary to grade surfaces to fine specifications and to operate in rough terrain. The worker is responsible for operating in a safe manner to prevent injury to self or others, or damage to equipment. Oral and written instructions or work orders concerning the location of the job and the work to be done are given. Worker plans basic approaches to assignments and work is done without direct supervision. More detailed instructions and review are provided with new, unusual, or complex assignments or equipment. Employee must maintain a commercial driver's license and maintain certification on all equipment he/she operates.

## D. PHYSICAL EFFORT:

Very strenuous effort is required in the operation and frequent adjustment of large pieces of equipment and attachments, often under adverse operating conditions. Considerable strain is caused by the constant vibration of the equipment and the jolting received from operation of the equipment over rough surfaces. Location of the controls and attachments frequently requires work in awkward or strained positions.

## E. WORKING CONDITIONS:

Work is performed in all types of weather often in an open driver's seat. Due to operations of large and complicated equipment, often in rough terrain, the operator is exposed to injury resulting from equipment overturning, and is subject to noise, vibration, dust, and fumes from machinery. Caution must be exercised to avoid injury from moving machinery and breaking cables.

CONDITIONS OF EMPLOYMENT:

Commercial Drivers License (CDL) is required.

Medical is required.

Drug test is required.