SERIES PURPOSE
The purpose of the highway technician equipment specialist (HTES) occupation is to perform equipment operation related to highway maintenance & construction duties. The HTES classification level operates all levels of equipment out of District-wide equipment operation work units.

Glossary: the terms below are to be interpreted as follows wherever they appear in the classification specification:

Basic Equipment: air compressor; asphalt reclaimer/recycler; backhoes and loaders; barricades, tow-type; brooms, power or tow-type; brush chipper; concrete saw or Vibrator; ditcher, 3 - 8 ton; ditch shaper; truck, class 8 or less, straight or towing a vehicle not in excess of 10,000 lbs. GVWR; electricade, trailer-mounted; forklift; generator; grader, 13,000-23,000 pounds; hammers & jack hammer; tractors, all sizes, with various attachments such as a drag berm, post hole digger/auger and mowers including rear brush hog, rear flail, cutter bar & side mount rotary and drag berm; pick-up truck or van, ½ ton, ¾ ton & 1 ton with or without trailer; plow & spreader; roller patcher, 4-6 tons; roller, 5-8 tons; sand blaster; chain saws; pavement joint sealer; sewer jet; sewer eel; hydraulic &/or stone box spreader; spade; stump cutter; 300 gallon tar kettle; tar distributor; water pumps; weed eaters; mowers, push-type; bucket trucks; computerized weed sprayer, truck-mounted; pickup or flatbed truck mounted winch/crane (3 ton lift capacity or less); guardrail post driver, truck-mounted.

Standard Equipment: conveyor loader, self-propelled; bump heater; concrete mixer; compactor, 4-6 tons; dozer, 7 tons; excavator, less than 44,000 pounds; grader, over 23,000 pounds; trailers, all including low-boy, tankers, dump trailers, flat deck; mud jack; paver, pull-type; pavement grinder, mounted; roller, 8 ton but less than 12 ton; steamer; hand & long-line stripper; sweeper, truck-mounted; truck, class 8 or less, straight or combination vehicle not requiring a Special Hauling Permit; crane, truck-mounted (greater than 3 but less than 35 tons lift capacity); traffic line remover; sewer cleaner under 17 tons; hydro seeder, truck mounted; trencher.

Complex Equipment: concrete groove/pavement cutter; cranes (35 tons & greater lift capacity); truck-mounted; crane; truck, class 8 or less, straight, or combination vehicle requiring a Special Hauling Permit; clam bucket; dozer, 18 tons; excavator, crawler & truck-mounted, 44,000 pounds or more; pile driver, 1 ton or more; road widener; roller, 12 ton or more; sewer cleaner 17 tons & greater; milling machines, self-propelled; pavers, self-propelled, 10,000 pounds or more; earth movers (pans); hydraulic/air hammer/breakers, boom-mounted; platform truck; snooper truck.
Highway Technician Equipment Specialist

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**JOB DUTIES IN ORDER OF IMPORTANCE** (These duties are illustrative only. Incumbents may perform some or all of these duties or other job-related duties as assigned.)

Operates any combination of basic, standard & complex equipment (i.e., see glossary for definitions of equipment) to excavate & grade ditches, construct & maintain roads & bridges, dig channels, load &/or transport all levels of equipment & materials, clean waterways &/or perform similar operations; place asphalt & stone; perform snow & ice control & related maintenance duties by operation of snow plow with spreader, brine dispensing equipment, dump truck with attachments & performs general highway maintenance duties which vary by season (e.g., cuts brush, grass & other vegetation, applies chemicals to vegetation, patches & seals berm & pavement, mixes mortar & concrete, shovels backfill, installs & repairs catch basin & stream channel & completes other drainage work, screens bleeding surface, reshapes/digs ditches/trenches, pours hot tar; removes trash, repairs/straightens street &/or traffic signs & other route markers; installs & repairs guardrails;) completes other related highway maintenance assignments, performs bridge maintenance duties (e.g., cuts & removes deteriorated concrete, mixes, pours, finishes & water proofs new concrete, builds, repairs & replaces headwalls, wooden bridge decks.)

Performs emergency response & clean up; performs traffic control (e.g., flags traffic through work zone or around accident site; sets lane closures; places high water signs; erects barricades); performs general labor & maintenance functions at garage; loads & unloads freight; arranges stock in warehouse; moves equipment.

Performs minor repairs & maintenance on equipment (e.g., sharpens; sands; welds; paints; refuels; lubricates; checks tires for wear & pressure; replaces light bulbs; washes & cleans trucks & equipment to prevent rusting); changes tailgates & snowplow blades; conducts pre-trip inspections of equipment; performs miscellaneous labor & bookkeeping tasks; operates two-way radio/base station; telephones crews for emergencies; cleans offices & work area; keeps daily records & logs (e.g., fuel sheets, material check sheets); responds to general inquiries from public (e.g., gives directions; explains traffic delays; explains work underway); assists stranded motorists (e.g., telephones for needed assistance).

**MAJOR WORKER CHARACTERISTICS**

Knowledge of safety practices & requirements associated with operation of heavy motorized equipment including excavation & trenches; arithmetic to include fractions, decimals & percentages. Skill in operation of heavy motorized & construction equipment (e.g., paving machine 10,000 lbs. and above, Cold milling machine, concrete trenchers, earth movers (pans), rock saws, hydraulic/air hammer breakers, power brooms, crawler loader, stone spreader, widening box, crane, large backhoe &dozer, heavy crawler, gradall, tractor trailer); maintenance & repair of equipment; operation of light & heavy equipment & hand tools (e.g., dump truck, grader, forklift, bucket truck, tractor trailer, chainsaw). Ability to carry out oral & written instructions; complete records & reports; lift 100 pounds; demonstrate physical fitness.

**MINIMUM CLASS QUALIFICATIONS FOR EMPLOYMENT**

Formal education in arithmetic to include fractions, decimals & percentages & to read, write & speak common English vocabulary; 18 mos. trg. or 18 mos. exp. in operation of standard & complex equipment (i.e., see glossary for definition of standard & complex equipment) & related safety practices.

Note: Applicant must have valid CDL at the appropriate level pursuant to approved PD on file to operate motorized equipment of size & type regulated by sections 4506.1, 4506.03, & 4506.12 of Ohio Revised Code.

-Or equivalent of Minimum Class Qualifications For Employment noted above.

**TRAINING AND DEVELOPMENT REQUIRED TO REMAIN IN THE CLASSIFICATION AFTER EMPLOYMENT**

Renewal of Commercial Driver’s License pursuant to approved position description on file. By the end of their probationary period, employees must have successfully completed the following: ODOT’s HTES Heavy Equipment & Safety course & the following Highway Technician courses: Maintenance Operation Overview; Personal Safety Awareness; Truck & Loader School; Snow & Ice Control; Regulated Waste Removals & HAZWOPER Awareness; WorkZone Maintenance of Traffic (MOT.)

**UNUSUAL WORKING CONDITIONS**

Works outside exposed to weather (i.e., including rain, lightening, humidity & hot temperatures in summer time & cold temperatures in winter) & on-going traffic; work rotating shift; on-call 24 hrs, 7 days per week; lift &/or transport 50-100 pounds; exposed to unpleasant surroundings to include dead animals, containers filled with human waste, diapers,
ditches with water & sewage, loud noise from equipment & traffic, confined work area while driving truck during regular &/or double shift during snow & ice removal or in confined space while digging ditches to install pipes or digging holes; exposed to insects such as bees, mosquitoes, flies & spiders; exposed to rodents to include mice & rats; exposed to stray dogs, dirt, dust, fumes, poison ivy/sumac & pollen.