Specialty Summary: Performs vehicle maintenance activities on military and commercial design special purpose or base maintenance vehicles and equipment. Activities include inspection, diagnostics, repair, and rebuild of components and assemblies. Related DoD Occupational Subgroup: 612.

Duties and Responsibilities: Determines the overall mechanical condition of vehicles and equipment, correction of deficiencies required, and effects repair. Systematically analyzes malfunctions by visual and auditory examination or through the use of test equipment. Repairs, adjusts, overhauls, or replaces major assemblies or sub assemblies such as power and drive trains, electrical, air conditioning, fuel, emission, brake, steering assemblies, tracks, hydraulic system components and special purpose vehicle and equipment attachments. Removes, disassembles, and repairs gasoline or diesel engines and components. Repairs components by replacing worn or damaged parts with new or reconditioned parts, grinding, fitting, balancing, or arranging for welding or machining. Reassembles, adjusts and tests repaired units for proper operation.

- Aligns bearing loads, gear tooth contact, and backlash to manufactures specifications. Adjusts valve mechanisms, governors, oil systems, control linkages, clutches, traction units and other systems unique to this type of equipment. Times injection pumps and accessory shaft gear trains.

- Performs preventive and special maintenance. Uses technical publications in maintaining vehicles to prescribed manufactures maintenance schedules. Ensures special inspections and maintenance on vehicles are performed correctly such as; corrosion control, winterization, storage and shipment. Properly annotates all maintenance performed on prescribed forms for data collection.

- Adheres to all established safety policies and standards to include identification, use, and proper procedures for handling or disposal of hazardous wastes.

Specialty Qualifications:

Knowledge. Knowledge is mandatory of: electrical, mechanical, and hydraulic principles applying to the repair of special purpose vehicles and equipment; methods of hoisting and handling heavy mechanisms; using lubricants, tools, and publications; supply procedures; and internal combustion engines.

Education. For entry into this specialty, completion of high school with courses in automotive mechanic or industrial arts is desirable.

Training. For award of AFSC 2T331, completion of a basic special purpose vehicle and equipment mechanic course is desirable.
**Experience.** For award of AFSC 2T351, Qualification in and possession of AFSC 2T331 is mandatory. Also, experience is mandatory in functions such as inspecting, repairing, or maintaining special purpose vehicles.

**Other.** For entry into this specialty, normal color vision according to [AFI 48-123](https://www.air-force-military.com/), Medical Examination and Standards, is mandatory.

**Strength Req:** J

**Physical Profile** 333233

**Citizenship** No

**Required Aptitude Score** M-44

**Technical Training:**

Course #: L5AQN2T331 000

Length (Days): 50

**Location:** PH

Course #: L3ABP2T331 000

Length (Days): 34

**Location:** PH