

## Mechanical Engineering FE Exam Preparation Example Problems and Solutions

### Full-Time

The patrol officer is a non-supervisory, entry-level position of the Oshkosh Police Department and is a representative of the City of Oshkosh and the State of Wisconsin. As such, the patrol officer is governed by legal and ethical standards of the highest nature. The patrol officer's philosophy must be one of dedication to public service setting aside personal interests for the interests of the common good. The patrol officer is a member of the Operations Bureau under the supervision of the Operations Bureau Captain, the Shift Lieutenant, and the Sergeant. The duties of a patrol officer are to promote public safety and enhance the quality of life in our community through innovative policing and community partnerships. The patrol officer must be able to perform these duties with limited immediate supervision while working as a part of a team with other employees and the community. The patrol officer is required to understand and be able to apply department policies, procedures, and job methods relating to work assignments. The patrol officer must have a working knowledge of federal laws, state statutes, and local ordinances. Physical fitness is required to perform the duties of this position.

**ESSENTIAL DUTIES AND RESPONSIBILITIES** The following duties are normal for this position. These are not to be construed as exclusive or all-inclusive. Other duties may be required and assigned.

- Conduct Team Policing activities to include but not limited to developing partnerships in the community, attending community meetings/events, and identifying and solving community problems. This includes using available resources and data to apply problem-oriented policing strategies.
- Arrest persons with and without warrants and assist in prosecutions as required.
- Investigate assigned calls for service and take appropriate actions.
- Conduct follow-up investigations during the normal course of an investigation or upon special request.
- Identify and investigate suspicious vehicles, persons, or situations.
- Properly prepare and testify in court and whenever subpoenaed.
- Help motorists on roadways who need assistance.
- Enforce traffic laws with appropriate discretion and issue warnings, citations, and summons to violators as guided by departmental rules. This includes using radar laser and pacing to ensure compliance with speed limits.
- Direct traffic on roadways when necessary.
- Investigate traffic crashes as assigned, determine the cause of crashes, complete accident reports, and issue traffic citations when appropriate.
- Observe, report and take action to mitigate traffic hazards.
- Enforce bicycle and pedestrian laws.
- Enforce all parking ordinances, including abandoned vehicles.
- Keep up-to-date on new and innovative law enforcement techniques and ideas to improve effectiveness and efficiency.
- Operate police equipment as efficiently and effectively as possible under a variety of conditions and in accordance with law and established procedures.
- Maintain issued equipment, such as uniforms, firearms, handcuffs, etc., in good repair. Equipment must be complete, neat, and in good working order.
- Operate department vehicles in a safe manner.
- Complete inspections of assigned vehicles for damage prior to use and report any damage found to a supervisor. Ensure each vehicle has the materials and equipment necessary for duty.
- Be responsible for and familiar with the City Handbook, Rules of Conduct, and all department policies, directives, and memos.
- Complete all required reports and forms and turn in any associated material promptly.
- Use uncommitted time

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to improve the quality of life in an assigned team area. • Take control of any emergency situation at which the officer is present. • Provide direction to other officers assigned on an investigation. • Subdue resisting persons. • Handcuff and transport prisoners or suspects in custody. • Evacuate persons from dangerous areas and administer first aid including CPR. • Respond to assigned requests for service and alarms. • Request and interpret TIME, NCIC, and all other appropriate software information. • Mediate civil disputes. • Share community concerns that are not the direct responsibility of the police department with the appropriate outside agency or city division. • Provide notification of criminal violations occurring outside the department's jurisdiction to the appropriate law enforcement agency. • Serve all assigned warrants promptly, regardless of whether the source of the warrant is this or another department. • Participate in assigned training programs. • Conduct tavern inspections. • Check buildings for burglaries or damage. • Assist other law enforcement agencies upon request if it does not conflict with department policy. • Return to duty when directed to do so by a supervisor. • Participate in special assignments as assigned. • Assist with training, planning, research, and policy development as assigned. • Participate in the execution of search warrants as assigned. • Perform other tasks as assigned.

**REQUIRED MINIMUM QUALIFICATIONS** Education and Experience • Be a citizen of the United States. • Be at least twenty years of age. • Have a background that is free of a felony or domestic abuse convictions. • Possess a valid driver's license at the time of employment. • Possess a bachelor's degree, a two-year associate degree, or a minimum of 60 credits from an accredited college or university with a preference toward a bachelor's degree. • Have the ability to complete the standardized course to achieve Wisconsin Law Enforcement certification.

Location: Oshkosh Wisconsin, United States

## Reference

[The Engineering Design of Systems: Models and Methods \(Wiley Series in Systems Engineering and Management\)](#)

[Encyclopedia of Electronic Components Volume 2: LEDs, LCDs, Audio, Thyristors, Digital Logic, and Amplification](#)