

YAKIMA COUNTY, WASHINGTON
CLASS SPECIFICATION
CLASS TITLE: Engineering Technician IV

BAND: ENG	GRADE: 2	SUBGRADE: 6	CLASS CODE: J23-8026
DEPARTMENT: Public Services / Yakima County Roads	ACCOUNTABLE TO: VARIES	JOB FAMILY: ENGINEERING	OVERTIME STATUS: NON-EXEMPT

JOB SUMMARY: The Engineering Technician IV performs a variety of difficult to complex engineering support activities in one or more Public Services and Yakima County Roads Departments such as traffic engineering and operations, transportation planning, survey, right of way, design / project drafting, materials testing and construction inspection or water resources.

DISTINGUISHING CHARACTERISTICS:

The Engineering Technician IV class is the highest level of a four (4) level engineer support classification series. The Engineering Technician III class is distinguished from the Engineering Technician II class by responsibility for acting in a lead capacity and/or performing work which requires a higher degree of technical expertise, accountability and independent judgement. The engineering support classification series is distinguished from the professional engineer classification series by duties base on technical knowledge and skill rather than broad academic knowledge of general engineering principles and practices.

DUTY NO:	ESSENTIAL DUTIES:	BAND/ GRADE
1.	Serves as a lead to subordinates; assigns and coordinates work; organizes crews, materials and equipment; inspects construction projects to ensure compliance with regulations, specifications and plans; and instructs and/or trains others in work procedures, techniques and methods.	B2
2.	Coordinates activities between department sections or with utility companies and governmental agencies. Provides input for operational procedures.	B2
3.	Reviews projects in order to determine materials, testing, surveying and right of way appraisal requirements; ensures materials, equipment and services are available. Confirms accuracy of quantities on contract plans.	B2
4.	Writes, reviews, calculates and prepares a variety of technical records, reports and documents such as specifications, bid documents, cost estimates, land appraisals and/or bridge condition surveys.	B2
5.	Performs a variety of support activities requiring technical engineering expertise and independent decision making such as researching title vesting, determining land values, reviewing and/or inspecting the work of contractors, and/or preparing traffic control plans.	B2
6.	Responds to questions or concerns of property owners and the general public. Negotiates with property owners, within defined limits.	B2
7.	Performs other duties as required.	

Knowledge of: (position requirements at entry):

- Knowledge of Federal, State and County codes, laws, rules and regulations related to assignment area;
- Mathematical computations;
- Materials used in engineering projects;
- Engineering and construction theories and principles;
- Safety precautions;
- Surveying theories and principles;
- Basic theories and principles of determining property value;
- Customer service techniques.

Skills (position requirements at entry):

- Assigning and monitoring the work of subordinates;
- Inspecting projects for compliance with rules and regulations;
- Coordinating activities;
- Preparing specifications;
- Preparing bid documents and cost estimates;
- Ordering and inventorying materials and supplies;

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- Reading maps;
- Reading and interpreting blueprints, schematics and plans;
- Drafting complex plans;
- Reviewing drawings and plans for compliance with codes and regulations;
- Applying surveying techniques and practices;
- Making mathematical computations;
- Conducting field interviews/investigations;
- Performing field sampling and testing of concrete, asphalt and soils for quality control and design;
- Preparing technical reports and graphic presentations;
- Using computers and related software applications;
- Establishing and maintaining effective interpersonal relationships at all organizational levels and with the public;
- Communication, both oral and written, sufficient to exchange or convey information and to give and receive work direction.

Training and Experience (requirement at entry):

Associates Degree in engineering or related field and six years of relevant work experience in area of assignment of which includes one year of work as a lead; or an equivalent combination of education and experience which provides knowledge, skills and abilities sufficient to successfully perform the essential duties of the job.

Preferred:

- Associate degree in field of study relevant to the assigned division
- Experience with Microsoft Office Suite, mapping, engineering or design software such as ArcMap, AutoCAD, HEC-RAS.

Licensing Requirements (some positions may require at entry):

- Valid WA State Driver's License and proof of insurance, if requested
- Successful completion of general employment verification
- Certification from the International Municipal Signal Association (IMSA) in Signs and Pavement Markings or Work Zone Safety, WVIRWA Senior Right of Way Agent designation
- Certification from WSDOT Bridge Inspection
- WA State Department of Health Radiation Safety Officer designation upon appointment
- WA State Department of Health Certification for Nuclear densometer
- DOT / FAA Drone Pilot

Working Conditions: Position may have the potential exposure to the following:

Environment: travel, field work, exposure to hostile/angry individuals, work outside of standard business hours and multiple work locations;

Physical Demands: Handling, Reaching, Sitting, Standing, Walking, Fingering, Balancing, Reclining, Hearing, Talking, Visual Activity. Depending upon assignment, incumbents may be subject to travel, exposure to hazardous materials, atmospheric conditions, intense noise, extreme temperatures and/or exposure to potentially hostile individuals.

Intellectual Demands: ability to multitask, confidentiality, ability to work under pressure, ability to articulate and communicate in conversations, ability to follow written and verbal instruction.

Light Work: Exerting up to 20 pounds of force occasionally and/or up to 10 pounds of force frequently, and/or a negligible amount of force constantly to move objects.

Classification History:

New Class: 02/2022

Revised: 01/2023

Revised: 07/2024