

YAKIMA COUNTY, WASHINGTON
CLASS SPECIFICATION
CLASS TITLE: ENGINEER V

BAND: ENG	GRADE: 4	SUBGRADE: 5	CLASS CODE: J23-8145
DEPARTMENT: Public Services / Yakima County Roads	ACCOUNTABLE TO: Varies	JOB FAMILY: Engineering	OVERTIME STATUS: Non-Exempt

JOB SUMMARY: The Engineer V performs routine to difficult professional level engineering work activities involving multiple or complex projects in civil, traffic, structural or hydraulic engineering areas and provides assistance and advice to technical and professional staff.

DISTINGUISHING CHARACTERISTICS: Engineer V is the highest level class in a five level professional engineering classification series. The Engineer V is distinguished from the Engineer IV by responsibility for monitoring the work of other professional engineers, consultants and contractors and by assignment to projects with a larger scope and financial accountability. Profession Certification is required of this position.

DUTY NO.	ESSENTIAL DUTIES:	BAND/ GRADE
1.	Prioritizes, assigns, reviews and directs engineering projects or programs; programs; provides direction, training, guidance and feedback to technical and professional staff, consultants, contractors and architects. Mentors other engineering positions.	C4
2.	Prepares, coordinates and monitors preparation of project designs, plans, drawings, specifications, estimates, spreadsheets and graphic materials collects, gathers and interprets engineering data for projects with a broad scope and high level of financial responsibility.	C4
3.	Prepares complex plans such as water system and wastewater facility plans.	C4
4.	Manages projects and related activities such as recommending or approving materials, schedules, pay estimates and contract awards; negotiates change orders and provides quality control.	C4
5.	Coordinates work and provides direction, training, guidance and feedback to technical and professional level staff, consultants, contractors and architects. Ensures plan, drawing, specification and project compliance. Coordinates projects with other departments, regulating agencies and utility companies.	C4
6.	Responds to questions/concerns of the general public and property owners.	C4
7.	Conducts engineering investigations and studies/ prepares technical reports. Prepares funding applications for state and federal grants and loans.	C4
8.	Reviews, drafts and processes engineering documents, resolutions and ordinances; conducts engineering investigations and studies.	C4
9.	Attends or facilitates meetings related to engineering projects.	B2
10.	Other duties as assigned.	

Knowledge of: (position requirements at entry):

Knowledge of:

- Construction designs;
- Engineering theories and principles;
- Federal, state and local laws, standards and regulations governing engineering projects;
- Related disciplines such as soils analysis and hydrology;
- Common materials used in engineering projects;
- Safety precautions;

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- Customer service techniques.

Skills (position requirements at entry):

Skill in:

- Monitoring and reviewing the work of contractors and architects;
- Managing and coordinating complex engineering projects;
- Providing technical advice to professional level staff;
- Writing contract specifications;
- Reading and interpreting maps, blueprints, schematics, plans and specifications;
- Designing engineering projects;
- Drafting designs and plans;
- Making complex mathematical calculations;
- Tracking and monitoring records for projects;
- Preparing pay estimates;
- 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 (position requirements at entry):

Bachelor of Science Degree in Civil Engineering and five (5) years of engineering work including two (2) years in area of specialty or the equivalent education and experience which provides the knowledge, skills and abilities sufficient to successfully perform the essential duties of the job.

Preferences:

- Proficiency in use of required computer software for assigned area of work
- Lead worker experience

Licensing Requirements (position requirements at entry):

- Valid WA State Driver's License and proof of insurance, if requested
- Successful completion of general employment verification
- Registration as a Professional Engineer
- Some positions may require bridge certification (Engineer language) within one year of employment.

Working Conditions:

Positions in this class typically require:
Environmental Demands: exposure to weather, travel, multiple work locations, field work, working in traffic. may be exposed to hostile/angry individuals.

Physical Demands: bending, carrying, handling, sitting, standing, walking, fingering, kneeling, hearing, talking, visual acuity; stooping, mobility, grasping, repetitive motion.

Intellectual Demands: ability to multitask, ability to articulate and communicate information in conversations, ability to follow written 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. If the use of arm and/or leg controls requires exertion of forces greater than that for Sedentary Work and the worker sits most of the time.

Classification History:

New: 01/98

Revised: 01/99

Updated: 02/19 Education and Experience

Updated: 02/22

Updated: 01/23