

YAKIMA COUNTY, WASHINGTON
CLASS SPECIFICATION
CLASS TITLE: ENGINEER IV

BAND: ENG	GRADE: 4	SUBGRADE: 4	CLASS CODE: J23-8144
DEPARTMENT: Public Services / Yakima County Roads	ACCOUNTABLE TO: Varies	JOB FAMILY: Engineering	OVERTIME STATUS: Non-Exempt
JOB SUMMARY: The Engineer IV performs routine to difficult professional level engineering work activities involving multiple or complex projects in civil, traffic or structural engineering areas and provides assistance and advice to technical and professional staff.			
DISTINGUISHING CHARACTERISTICS: Engineer IV is the fourth level class in a five level professional engineering classification series. The Engineer IV is distinguished from the Engineer III by assignment to multiple, complete and more complex projects requiring a greater degree of knowledge and skill found with professional certification.			
DUTY NO.	ESSENTIAL DUTIES:		BAND/ GRADE
1	Prepares and monitors the preparation of project designs, plans, drawings, specifications, estimates, spreadsheets and graphic presentation materials including collecting, gathering and interpreting engineering data for more complex engineering projects.		C4
2.	Manages assigned projects including related activities such as recommending and approving materials, approving schedules, resolving problems, negotiating change orders, recommending pay estimates, providing quality control and making recommendations on award of contracts.		C4
3.	Coordinates engineering projects and activities with other departments, regulating agencies and utility companies. Responds to questions/concerns of the property owners and the general public within assigned area.		C4
4.	Reviews, drafts and processes engineering documents, resolutions and ordinances.		C4
5.	Trains and/or instructs personnel in basic practices such as safety, the use of software applications and/or design and drafting procedures and requirements.		C4
6.	Provides assistance, advice and feedback to technical level and professional level engineering staff.		C4
7.	Attends or facilitates meetings related to work assignments and engineering projects. Prepares reports, engineering studies as assigned.		B2
8.	Other duties as assigned.		
Knowledge of: (position requirements at entry): Knowledge of: <ul style="list-style-type: none">• 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;• Customer service techniques.			
Skills (position requirements at entry): Skill in: <ul style="list-style-type: none">• Managing and coordinating complex engineering projects;			

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- Providing technical advice to professional level staff;
- Inspecting projects for compliance with rules and regulations;
- Writing contract specifications;
- Reading maps;
- Reading and interpreting 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):

- Bachelors of Science Degree in Civil Engineering and four (4) years of civil engineering working 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
- May require registration as a Professional Engineer

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, the job is rated for Light Work.

Classification History:

New: 05/97

Revised: 10/97

Updated: 01/99 Template

Updated: 02/19 Education and Experience

Updated: 02/22

Update: 03/22