

**YAKIMA COUNTY, WASHINGTON**  
**CLASS SPECIFICATION**  
**CLASS TITLE: ENGINEER I**

<b>BAND:</b> <b>ENG</b>	<b>GRADE:</b> <b>4</b>	<b>SUBGRADE:</b> <b>1</b>	<b>CLASS CODE:</b> <b>J23-8141</b>		
<b>DEPARTMENT:</b> Public Services / Yakima County Roads	<b>ACCOUNTABLE TO:</b> Varies	<b>UNION:</b> CTP / Local 1	<b>OVERTIME STATUS:</b> Non-Exempt		
<b>JOB SUMMARY:</b> This position is responsible for coordinating the Design, Permitting and Project Management for engineering projects in the Public Services or Yakima County Roads Departments					
<b>DISTINGUISHING CHARACTERISTICS:</b> Engineer I is the entry level class in a five level professional engineering classification series. The Engineer I is distinguished from the Engineer II by assignment to routine engineering projects or portions of complex projects. The professional engineering classification series is distinguished by duties based on broad academic knowledge of general engineering principles and practices rather than on technical knowledge.					
<b>DUTY NO.</b>	<b>ESSENTIAL DUTIES:</b>		<b>BAND/ GRADE</b>		
1.	Manages assigned projects and performs engineering design and analysis of multiple road, bridge, traffic or hydraulic engineering projects under the direction of a Professional Engineer. Collects, gathers and interprets engineering data and applies engineering fundamentals to solve complex problems both in the office and field.		C		
2.	Prepares project specifications by gathering information, analysis, advising Division technicians and other staff. Prepares estimates of materials to be used and drafts final report for review and approval. Prepares permit documents and ensures supporting data is made available for review by permitting agencies.		C		
3.	Assists with construction contract administration by solving field problems, reviewing change orders and providing Engineering support and advice to Division Staff. Identifies how the field problem affects design principles, determines what changes to make to resolve the problem and the estimates costs involved.		C		
4.	Meets with contractors, public agencies and officials, or general public and answers questions regarding policies, procedures, and practices. Assigns work and monitors work performed by subordinate technical staff. Facilitates meetings related to project management.		B		
5.	Other duties as assigned.				
<b>Knowledge of:</b> (position requirements at entry): Knowledge of:					
<ul style="list-style-type: none"> <li>• Knowledge of Federal, State and County codes, laws, rules and regulations related to assignment area;</li> <li>• Engineering Theories and Principles;</li> <li>• Common materials used in engineering projects;</li> <li>• Safety precautions;</li> <li>• Customer Service techniques.</li> </ul>					

## CLASS TITLE: ENGINEER I

### Skills (position requirements at entry):

Skill in:

- Reading and interpreting maps, blueprints, schematics, plans and specifications;
- Computer aided drafting designs and plans;
- Making complex mathematical calculations;
- Using computers and related software applications;
- Establishing and maintaining effective interpersonal relationships at all organizational levels and with the public; and
- Communication, both oral and written, sufficient to give and receive information and to facilitate meetings and project work.

### Training and Experience (position requirements at entry):

One of the following educational and experiences:

- Associates of Arts Degree, NCEES (National Council of Examiners for Engineering and Surveying) Engineer in Training Certificate AND 6 years of engineering experience working under the direction of a Licensed Professional Engineer;
- Associates of Arts Degree AND 8 years of engineering experience working under the direction of a Licensed Professional Engineer; OR
- Bachelor of Science Degree in Engineering

Preferred:

- Bachelor of Science Degree in Engineering

### Licensing Requirements (position requirements at entry):

Valid WA State Driver's License and proof of insurance, if requested

Successful completion of general employment verification

### 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 Class: 05/98

Updated: 05/16 Duty Update

Updated: 02/19 Working Conditions

Updated: 02/22

Revised: 01/23