

PHYSICAL & MENTAL REQUIREMENTS/WORKING CONDITIONS

City of Virginia Beach, VA

Job Title:	Engineer IV				Position Number(PCN):	B.003462		
Div./Office:	PWD 603 Technical Services and Asset Management		Approver's Name					
Date of Last Update:	August 27, 2025	Approver's Title						
Fields to the right (Y/N): The position's status AND if the background check must be passed by the incumbent		Safety Sensitive:	No	Child Protective Services (CPS) Background:	No	VCIN Background:	No	
		CJIS Certification:	No	PREA Certification:	No	Subject to Barrier Crime Provisions:	No	
REQUIREMENTS								
FREQUENCY: Seldom = Infrequent, < 5%; Occasional = 5% to 25% of time on job; Frequent = 25% to 75% of time on job; Constant = Over 75% of time on job.								
Typical DURATION: Short = < 1 hr per occurrence; Moderate = 1-2 hrs per occurrence; Substantial = 2-6 hrs per occurrence; Long = > 6 hrs per occurrence.								
Physical Demands				Working Conditions				
Element	Condition/Level/Value	Frequency	Duration	Element	Condition/Level/Value	Frequency	Duration	
Standing		Occasional	Short	Working Outside: in all weather conditions		N/A	N/A	
Walking		Occasional	Short	Working Alone: out of communication w/others		N/A	N/A	
Sitting		Frequent	Substantial	Extreme Temperatures	N/A	N/A	N/A	
Reaching	N/A	N/A	N/A	Extreme Wetness		N/A	N/A	
Lifting	N/A	N/A	N/A	Extreme Dryness		N/A	N/A	
	Weight:	N/A	N/A	Exposure to Traffic	N/A	N/A	N/A	
Carrying	Distance:	N/A	N/A	Congested Area/Workspace		N/A	N/A	
	Estimated weight-resistance equivalency		N/A	N/A	Confined Space- Permit REQUIRED		N/A	N/A
Pushing	Estimated weight-resistance equivalency		N/A	N/A	Working Below Ground		N/A	N/A
	N/A	N/A	N/A	Working at Heights(ft.)	N/A	N/A	N/A	
Pulling	Estimated weight-resistance equivalency		N/A	N/A	Noise Level: > 85 decibels TWA for 8 hrs.	N/A	N/A	
	N/A	N/A	N/A	Working at Heights(ft.)		N/A	N/A	
Working Overhead	Estimated weight-resistance equivalency		N/A	N/A	Body area(s):	Ex- Trunk, shoulders, arms, and hands.		
	Weight:	N/A	N/A	N/A	N/A	N/A	N/A	
Climbing Stairs		N/A	N/A	Vibrations	N/A	N/A	N/A	
Climbing Ladders		N/A	N/A		N/A	N/A	N/A	
Balancing		N/A	N/A	Body area(s):	Ex- Trunk, shoulders, arms, and hands.			
Stooping		N/A	N/A	Dust / Dirt / Particulate		N/A	N/A	
Kneeling/Squatting		N/A	N/A	Radiation		N/A	N/A	
Bending		N/A	N/A	Silica/Fiberglass		N/A	N/A	
Crawling		N/A	N/A	Asbestos		N/A	N/A	
Explosive Strength: Short bursts of muscle force to propel oneself.		N/A	N/A	Aerosols & Gases	N/A	N/A	N/A	
Trunk Strength: Use of abdominal and lower back muscles.		N/A	N/A	Hazardous Materials /Chemicals		N/A	N/A	
Dynamic Strength: Use of muscle force repeatedly or continuously & resistant to fatigue.		N/A	N/A	Petroleum Products	N/A	N/A	N/A	
Repetitive Limb Movement	Fingers/Wrist		Frequent	Moderate	Electrical Hazard		N/A	N/A
					Fire Hazard		N/A	N/A
Dexterity	Use of computer keyboard		Frequent	Moderate	Infectious Diseases Exposure Type(s):	N/A	N/A	N/A
	Handwriting		Frequent	Moderate				
Repetitive Twisting	N/A		N/A	N/A	Ex- Repair sewer pipes; empty residence trash cans.			
					Symbols:	< equal to or less than	< less than	
Awkward Positions & Motions	N/A		N/A	N/A		> equal to or greater than	> greater than	

Sensory Demands				Working Conditions (cont.)			
Element	Condition/Level/Value	Frequency	Duration	Element	Condition/Level/Value	Frequency	Duration
Vision	20/40 w/correction	N/A	N/A	Hazardous Surfaces	N/A	N/A	N/A
					N/A	N/A	N/A
Hearing	Conversational level	N/A	N/A	Other Hazards			
Smell	N/A	N/A	N/A				
					More than 40 hours/week	Seldom	
					More than 8 hours/day	Seldom	
Touch	N/A	N/A	N/A	Hours Worked	More than 5 consecutive days	Seldom	
					No		
Voice	Presentations	N/A	N/A		Eligible		
Personal Protective Equipment (PPE)				Equipment Operation & Use			
Category	Type	Frequency	Duration	Category	Type	Frequency	Duration
Eye and Face Protection	N/A	N/A	N/A	Motor Vehicles	Sedan/Pickup/Van	Occasional	Short
					N/A	N/A	N/A
Respiration Protection	N/A	N/A	N/A	Heavy Equipment			
Hearing Protection	N/A	N/A	N/A				
					N/A	N/A	N/A
Head Protection	Hard hat (impact protection)	Seldom	Short	Other Equipment or Machinery			
Hand Protection	N/A	N/A	N/A		N/A	N/A	N/A
Foot Protection	Steel/composite toe-safety rated	Seldom	Short	Hand-Held Power Tools	N/A	N/A	N/A
Body, Arm, and Leg Protection	N/A	N/A	N/A				
Operator License				Commercial Driver's License			
NOTE: If CDL is required, show CDL Class in element to right.	Type			VA DMV requires: 20/40 in each eye w/o telescopic lens & $\geq 140^\circ$ horizontal vision.			
	Standard Driver's License						
Other physical or sensory demands, working conditions, equipment, hazards, PPE, etc., not indicated above:							

Mental Requirements

Evaluate based on the level of complexity [least to most] inherent in the job using the examples provided; then select the number from the drop-down list that matches the column which best represents the mental demand required in each element.

1 Comprehend Verbal Communication - Understand information and directions which are provided verbally

Job requires the ability to understand and follow:

Complex information where interpretation of vision and strategy is required to develop policy and/or course of action.

2 Communicate Orally - Verbally express thoughts and directions

Job requires:

Communicating complex information to higher officials and authorities.

3 Comprehend and Follow Written Material or Instructions - Understand written material, interpret appropriately, and adhere to the procedures stated.

Job requires ability to comprehend:

Complex written material where significant interpretation and evaluation are required to successfully apply content without guidance.

4 Written Communication Skills - Express thoughts and directions in writing

Job requires:

Preparation of reports and documents involving complex information.

5 Maintain an Appropriate Work Pace - The flow or rate of incoming work assignments and the expectations for completion of tasks

Job requires ability to adhere to work schedule:

In moderately paced environment with some unexpected assignments.

6 Perform Complex or Varied Tasks - The variety of tasks and assignments and the level of complexity of those tasks/assignments

Job requires ability to perform:

A variety of tasks at the specialist or leader level.

7 Interact and Relate to Peers, Co-Workers, or the Public - The nature and level of interaction with others required of the job

Job requires interaction:

With diverse citizen groups, government officials, and/or business leaders exchanging sensitive information or completing complex projects.

8 Decision Making & Reasoning Ability - The extent to which the job requires logic to analyze information, draw conclusions/ generalizations, and make decisions based on facts

Job requires:

Substantial reasoning and decision making. Research and evaluation are conducted, broad theories and principals are applied to the development of a recommended solution.

9 Memory and Recall - The body of stored knowledge required and the retrieval of that information to accomplish duties

Job requires the ability to:

Memorize complex procedures, policies, and laws, and recall and apply to difficult issues or develop innovative strategies or work products.

10 Flexibility and Adaptability - The extent to which one must adjust to changing circumstances and expectations, take on new challenges on short notice, and/or deal successfully with changing priorities and workloads

Job requires flexibility and willingness:

To change complex procedures to accommodate requirements of higher authorities.

11 Attention Span - Sustained attention or the time spent continuously on task without becoming distracted to successfully perform duties

Job tasks are:

Varied, lengthy, and require considerable focus. Lapses may result in injury or legal or financial liability.

12 Attention to Detail - Thoroughness and accuracy are required to accomplish tasks

Job tasks:

Involve numerous and various details, some of which have subtle differences, that require continuous and close attention to detail to facilitate accuracy of outcome. Inattention to detail could result in legal or financial liability.

13 Reaction Time - Describes work that requires an immediate response or decision

Job requires the ability to:

Provide an immediate response/decision to situations outside of normal daily operations, procedures or processes. Untimely response/decision could lead to serious injury, or legal or financial liability.

14 Direct, Control, and Plan the Work of Others - Determine the time, place and sequence of work procedures, operations, and actions. Establish goals and objectives, motivate, and promote cooperation and teamwork in the work group

Job requires:

Planning and supervision of multiple groups of employees.

15 Influence Others - Obtain cooperation from others to accomplish tasks and objectives

Job requires:

Working with diverse groups; must obtain consensus on complex issues or policies from a variety of groups or individuals to complete work satisfactorily.

16 Stress Tolerance - Ability to perform duties without anxiety when faced with difficulties. Having positive stress tolerance is being able to stay calm in situations of heavy workload, tight deadlines, and/or difficult customers

Job requires the ability to:

Tolerate highest levels of stress resulting from complex situations; requires maintaining personal composure and initiating remedial action to alleviate stress for others.