

**COMPETENCY MODEL FOR  
SENIOR HYDROGRAPHER  
CLASS CODE 7264**

The following competencies have been identified as those that best separate superior from satisfactory job performance in the class of **SENIOR HYDROGRAPHER**. (Numbers refer to the order of competencies in the Competency Bank.)

- 3. Judgment and Decision Making
- 7. Self-Management
- 8. Safety Focus
- 20. Job Knowledge
- 28. Supervision
- 32. Responsiveness and Follow-Up
- 36. Emotional Maturity
- 48. Shares Knowledge and Information

On the following pages are descriptions of each competency, including a definition, the level of the competency required for the class (bold, italicized and underlined), examples of behavioral indicators, and satisfactory and superior performance levels.

**3. JUDGMENT AND DECISION MAKING** – Accurately assesses situations, seeks new information if necessary, and applies all available information to reach sound conclusions/formulate effective response.

Level of Competency Required by Job:

Level 1: Training and guidelines needed to respond to immediate situations within very specific function are provided (or supervisor available to assist).

**Level 2: General information and guidance to assist in responding to a variety of situations across a range of circumstances are provided.**

Level 3: Little guidance available for responding to a wide range of complex situations with far-reaching and/or enduring consequences.

Examples of Behavioral Indicators:

- Effectively responds to atypical situations.
- Asks questions or otherwise obtains additional relevant information to make a decision.
- Formulates a decision and necessary actions based on available facts.
- Correctly infers appropriate response based on information provided and existing policies, personal experience, and/or consultation with others.
- Discusses conclusions/possible responses with others before taking action as necessary.
- Considers impact of decisions on all affected parties.

Performance Levels:

Satisfactory

Correctly assesses routine and unusual situations and reaches appropriate conclusions for actions needed. Obtains additional information and/or consults with others as necessary.

Superior

Evaluates new situations accurately to establish an appropriate response or plan of action. Recognizes the impact on all affected parties, as well as the possible ramifications and/or repercussions of setting a precedent.

**7. SELF MANAGEMENT** – Organizes and plans for task accomplishment; manages time and works diligently to complete assigned work/fulfill responsibilities.

Level of Competency Required by Job:

Level 1: Order tasks for efficient performance; maintain awareness of time allotted and deadlines in order to ensure they are met.

**Level 2: *Plan and perform work in a way that maximizes efficient performance; establish and adjust priorities to ensure timely completion of most critical assignments.***

Level 3: Allot time to responsibilities proportional to their prominence, priority, and impact.

Examples of Behavioral Indicators:

- Performs only work activities during work hours.
- Alters means of performing work when original approach proves to waste time.
- Keeps a “to do” list (with indication of priority and deadlines, if necessary).
- Requests assistance as necessary when it becomes clear that work will not be completed on time.
- Demonstrates a record of progress with respect to all assignments/responsibilities.
- Uses optimal means of communication for efficiency and effectiveness.

Performance Levels:

Satisfactory

Conducts self while at work in a manner that ensures work will be completed as scheduled, or provides explanation or secures assistance or adjustment of schedule if it will not be.

Superior

Seeks efficiencies in doing work to maximize productivity. Plans work carefully and follows the plan or makes adjustments if it is disrupted. Maintains personal responsibility for all work accomplishment.

**8. SAFETY FOCUS** – Performs work in a way that minimizes risk of injury to self or others.

Level of Competency Required by Job:

Level 1: Maintain awareness of unsafe conditions and actions to avoid injury.

Level 2: Follow safety rules/procedures; avoid known hazards in the work environment.

**Level 3: Carefully follow safety rules and procedures and consistently use all necessary safety equipment.**

Examples of Behavioral Indicators:

- Wears seat belt.
- Ensures safe physical work environment by taking actions such as eliminating unstable stacks of materials, closing drawers so filing cabinets will not tip over, and keeping pathways clear of tripping hazards.
- Reviews safety procedures before beginning each job with known hazards.
- Follows safety procedures while performing work even when it takes more time.
- Uses safety equipment such as goggles, gloves, and earplugs as required or warranted.
- Frequently checks safety equipment for proper condition and operation.

Performance Levels:

Satisfactory

Maintains awareness of personal safety to avoid injury or property damage during all work activities.

Superior

“Safety first.” Places avoidance of injury or property damage above all other job requirements. Mentions the need to follow safe work practices to co-workers. Actively seeks ways to avoid injury.

**SENIOR HYDROGRAPHER (7264)**  
**Safety Focus Knowledge Areas 2019**

1. Knowledge of the safety precautions to take before entering confined spaces such as checking for toxic gas and insufficient oxygen in order to safely enter a confined space and prevent illness, death or injury.
2. Knowledge of safety procedures and equipment to use when lifting heavy objects such as proper ergonomic lifting techniques in order to prevent back and other injuries.
3. Knowledge of traffic safety precautions that need to be taken when doing work in the streets such as wearing a traffic vest, using proper signage and coning in order to maintain a safe working zone.
4. Knowledge of the dangers, precautions, and first aid procedures applicable in hiking, skiing, snow shoeing, and working in snow-covered mountain areas such as snow survival training (e.g. preventing hypothermia, increasing visibility, maintaining communication, setting up proper campsites) and avalanche awareness in order to safely measure snowpack.
5. Knowledge of the dangers, precautions, and first aid procedures applicable when working in hot, natural areas such as sun stroke and snakes in order to work safely and avoid injury.

**20. JOB KNOWLEDGE** – Knows information required to perform a specific job. Includes both widely available courses of study (for example, chemistry, human resources management, graphic arts) and City-specific information (parking regulation and ticketing practices; purchasing procedures; provisions of the City Charter).

Level of Competency Required by Job:

Level 1: Knowledge is concrete, factual, and/or procedural and may be defined by the organization. Situations in which it is applied are quite consistent.

**Level 2: Knowledge is substantive and may be defined by an external trade, field, or profession. Situations in which it is applied vary and, as such, require breadth and depth of understanding.**

Level 3: Knowledge is abstract, conceptual, and/or complex and may be supported by a well-defined academic discipline or authoritative sources (e.g., laws, ordinances, government guidelines/regulations/codes). Situations in which it is applied may vary greatly or be novel.

Examples of Behavioral Indicators:

- Performs work correctly/avoids technical (job content related) errors.
- Answers technical questions about work accurately.
- Asks few technical questions about the performance of routine work activities.
- Offers advice (“coaching”) to new employees regarding their work.
- Develops training programs for other employees.
- Sought out as a source of information by others.

Performance Levels:

Satisfactory

Sufficient job knowledge to perform work correctly independently. Answers technical questions about work correctly.

Superior

Expertise in technical job information sufficient to serve as a resource to others. May develop training manuals/ programs and/or give internal and/or external presentations related to work.

**SENIOR HYDROGRAPHER (7264)**  
**Job Knowledge Areas 2019**

1. Knowledge of the characteristics and uses of flow and water level devices such as flow meters, recorders, water stage recorders and pressure meters in order to properly train subordinates in their use.
2. Knowledge of the purpose, equipment, procedures, challenges and staffing requirements for conducting flow tests to measure the available water supply and rate/recovery of water flow and pressure surveys to measure water pressure as it flows through systems (e.g., plumbing) including the types of problems which can occur and the necessary precautions to take when conducting tests/surveys, such as completing a pumping well flow test, in order to provide supervision and review results.
3. Knowledge of the purpose and methods for using and reading staff gauges such as a reservoir staff gauge in order to record accurate water elevation.
4. Knowledge of the purpose and characteristics of snow measurement such as a snow course survey in order to determine water volume and content using pillows and survey courses.
5. Knowledge of the purpose and characteristics of a snow pillow such as its measurements of water volume in snowpack and functions in order to use the information it provides to install and repair them.
6. Knowledge of the tools and techniques used in snow surveys such as the snow tube and scale in order to measure the depth and amount/weight of snowpack.
7. Knowledge of the methods and equipment used in current metering such as a meter propeller in order to manually complete measurements of the velocity of water in pipes.
8. Knowledge of the purpose and operation of an airlift in a well or test hole such as measuring water levels in order to properly gauge groundwater status.
9. Knowledge of the uses and characteristics of flow measurement devices such as a Parshall flume, V-notch weir, Cippoletti weir, ramp flume and broad-crested weir in order to accurately measure open channel water flow.
10. Knowledge of surveying methods, equipment, and concepts such as a level and rod in order to measure reference elevation in a variety of conditions.

11. Knowledge of the purpose and methods for using and reading measurement devices such as a barometer, anemometer, hook gauge, and staff gauge in order to monitor weather and environmental conditions (e.g., air pressure, air/wind velocity, rate of evaporation, rise/fall of water surface).
12. Knowledge of the purpose and characteristics of a test hole, toe-of-dam, and French drain in order to accurately convey the groundwater status of a drain and its seepage.
13. Knowledge of the applications of and relationships between hydraulic measurements and concepts, such as cubic feet per second ( $\text{ft}^3/\text{s}$ ) and pounds per square inch (psi,  $\text{lb}/\text{in}^2$ ), in order to properly convert one unit of measurement to another and share accurate information.

**28. SUPERVISION** – Ability to assume direct responsibility for all aspects of the performance of a work group, which requires knowledge and/or ability in the areas of:

- Planning and goal setting
- Creating a safe and positive work environment
- Establishing standards and training employees
- Motivating employees and teambuilding
- Performance Management (assigning, monitoring, facilitating, reviewing and evaluating work, and providing feedback)
- Supporting and developing employees through delegation and participation
- Taking disciplinary action including progressive discipline
- Provisions of employees' MOU's and handling grievances
- Legal requirements including EEO, ADA, FLSA, FMLA, and Workers' Compensation provisions
- Civil Service Commission Rules and Policies related to the management of employees
- Administrative Code provisions related to the management of employees
- Budget processes sufficient to request and justify expenditures in a correct and timely manner

Level of Competency Required by Job:

Level 1: Supervises small workgroup of employees performing the same or highly related work.

Level 2: Supervises a larger workgroup of employees performing various types of work.

Level 3: Supervises employees including provision of coaching and advice to subordinate supervisors.

Examples of Behavioral Indicators:

- Plans, assigns, and monitors work progress.
- Trains employees to do work.
- Evaluates work and gives positive and negative feedback.
- Displays knowledge of legal requirements including applicable Federal and State laws, Administrative Code provisions, Civil Service Commission Rules and Policies, and MOU provisions.

Performance Levels:

Satisfactory

Proficiency in supervision sufficient to supervise a workgroup in terms of task orientation, interpersonal concerns, and personnel administration.

Superior

Proficiency in supervision sufficient to serve as a resource to others and/or represent department position in a public forum.

**32. RESPONSIVENESS AND FOLLOW-UP** – Executes actions as requested or to which a commitment has been made; continues involvement as needed.

Level of Competency Required by Job:

Level 1: Willingly accept job assignments and, upon completion, asks whether any other actions are necessary.

**Level 2: Ensure that all job responsibilities are fulfilled within their designated timeframes. Willingly accept, and may volunteer for, additional assignments, but does not overextend. Anticipate and accommodate the need for continued involvement.**

Level 3: Ensure that staff and other resources are available (or can be made available) to reasonably allow for completion of work before making a commitment. If not, make adjustments to ensure completion of work or re-establish priorities and communicate to all involved parties. Recognize the probable need for continuation of some staff involvement beyond the designated timeframe to ensure success.

Examples of Behavioral Indicators:

- Willingly accepts assignments and completes assigned work.
- Monitors “completed” work to determine whether additional issues to be addressed have arisen.
- Volunteers for assignments when able to assure their timely completion.
- Carefully considers available staff and resources, and competing priorities, before making commitments to complete additional work.

Performance Levels:

Satisfactory

Completes assigned work. Realistically appraises the likelihood of completing additional work before accepting or volunteering for it. Recognizes the usual need for follow-up once assignments are submitted.

Superior

Completes assigned work in an expeditious manner. Often ready to accept additional work or volunteer for it. Readjusts priorities and/or revises plans to maximize productivity. Diligently monitors the possible need for follow-up.

**36. EMOTIONAL MATURITY** – Maintains a calm and task-oriented approach to work even under circumstances of conflict or hostility.

Level of Competency Required by Job:

Level 1: Remain focused on the task at hand when interacting with unpleasant or uncooperative people, circumstances are frustrating, the workload is high, or other conditions of the work environment are less than optimal.

**Level 2: Seek effective resolution to complaints/criticisms; recognize that complaints/criticisms often are not personal, but a reflection of frustration or disagreement on the part of others.**

Level 3: Maintain neutrality and effective performance even in the face of unjustified challenge or direct criticism in a public forum.

Examples of Behavioral Indicators:

- Maintains a calm and focused demeanor.
- Continues to listen to others with whom conflict or disagreement has occurred.
- Does not display excessive emotionality: yell, shout, scream, cry, or use profanity.
- Does not “act out:” slam doors, throw things, threaten, or assault others.
- Does not engage in inappropriate acts such as telling off-color jokes, name-calling, horseplay, or bullying.

Performance Levels:

Satisfactory

Demonstrates emotional stability and mature behavior appropriate to the workplace even in circumstances of discord or duress.

Superior

Maintains businesslike demeanor and continues to attempt to address the issue at hand even when faced with personal attacks, unjustified accusations, or other inappropriate behavior from others.

**48. SHARES KNOWLEDGE AND INFORMATION** – Conveys all information relevant to each involved party in a thorough and timely manner.

Level of Competency Required by Job:

Level 1: Provide job-related information as it becomes available to others who are likely to need it or to whom it might be helpful.

**Level 2: Keep all involved parties informed of work/project progress and other new information. Tailors content, level of detail, and timing of information provided to the perspective of each recipient**

Level 3: Recognize different needs for different information and provide all affected parties with a description of the “big picture” as well as the breadth and detail of information relevant to their perspective.

Examples of Behavioral Indicators:

- Provides thorough explanations with all relevant details.
- Uses multiple means of communicating (e.g., e-mail, telephone, meetings).
- Provides status reports of work/project progress to all involved parties.
- Informs others of changes at the earliest feasible time.
- Uses multiple addressees and “copies” others so all parties see exactly the same information and know who already has been informed.
- Draws from job knowledge and work experience to provide thorough descriptions and explanations.

Performance Levels:

Satisfactory

Readily communicates new, job-related information to all employees to whom it is relevant. Provides a level of detail and explanation appropriate to the recipient.

Superior

Ensures that all involved parties are provided the maximum amount of information feasible in as timely a manner as possible to facilitate work/project status. Shares job knowledge and experience to serve as a mentor or coach to other.

