			Work	Prob.	Effective	Last
Code No.	Class Title	Area		Period	Date	Action
1393	Assistant Operating Engineer	15	170	6 mo.	07/18/88	Rev.
1392	Operating Engineer	14	170	6 mo.	10/18/88	Rev.
1402	Operative Crane Engineer	14	170	6 mo.	10/18/88	Rev.
1759	Operating Engineer Foreman	14	170	6 mo.	07/18/88	Rev.
	¹ Promotional Li	inoc: 27. ·	210 <mark>2222</mark>			
	r Tomotional El	1103. 32,2	.1.9 <mark></mark>			
Series Narrativ	ve					
	this series operate and/or super	vise the	operatio	n of pow	er equipme	nt used in
	or maintenance work.		•			
DESCRIPTION	OF LEVELS OF WORK					
Level I: Assist	ant Operating Engineer					1393
Employees at	this level operate lighter duty powe	r equipme	ent unde	r general s	upervision a	nd learn to
	/-duty power equipment under direct					
An Assistant C	Operating Engineer typically –					
1. operates	s light duty construction equipment, s	such as tr	actors, h	vdraulic sp	ravers, air co	mpressors,
, pumps, 	rollers, winches, etc.					
2. learns to	o operate heavy duty power equipm	ent, such	as heavy	/ tractor/ I	oader/backh	oes, power
	bulldozers, large end loaders, on cons					
0						
3. learns te	properly maintain and perform mino	r repairs (on heavv	duty const	ruction equi	ment
4. perform	s ice and snow removal duties as requ	iired				
5. Perform	s other related duties as assigned					
Level I: Opera	ating Engineer					1392
	this level operate heavy-duty powe	r equinmo	ent used	in constru	iction and m	
	ork under general supervision from a	• •				uniteriunee
	on and engeneral supervision nonna	acsignate	u supervi	501.		
· · · ·						
	Engineer typically					
	Engineer typically					

 operates heavy-duty power equipment such as backhoes, tractors, and power graders, as well as lighter power equipment on construction and maintenance work.

- 2. loads and unloads coal, sand, gravel, steel, and other heavy materials with power equipment.
- 3. provides on-the-job training to Assistant Operating Engineers.
- 4. Maintains equipment and make minor repair to equipment such as, ????.
- 5. may receive training in the safe and proper operation of power cranes and derricks.
- 6. performs minor repairs and preventative maintenance on equipment operated.
- 7. performs ice and snow removal duties as required.
- 8. performs other related duties as assigned.

Level II: Operative Crane Engineer

Employees at this level operate heavy types of power equipment used in construction and maintenance work, including cranes and derricks. They work under general supervision from a designated supervisor.

An Operative Crane Engineer typically

- 1. operates heavy power equipment such as power cranes, derricks, tractors, power graders, as well as other lighter duty power equipment used in construction and maintenance work.
- 2. loads and unloads coal, sand, gravel, steel, and other heavy materials with power equipment.
- 3. provides on-the-job-training to Assistant Operating Engineers in the operation of heavy duty construction equipment and to Operating Engineers in the operation of power cranes and derricks.
- 4. maintains equipment and make minor repair to equipment such as, ????.
- 5. performs ice and snow removal duties as required.
- 6. performs other related duties as assigned.

Level III: Operating Engineer Foreman

Employees at this level supervise the work of operating engineers and other assigned personnel performing construction and/or maintenance work. They work under general supervision from a designated supervisor.

An Operating Engineer Foreman typically

- 1. supervises operating engineers and other assigned personnel, with responsibility for recommending hiring, discipline, and performance evaluation.
- 2. coordinates work assignments, such as cost and time estimates, scheduling, and distribution of work and equipment, as well as coordinating assignments with other work areas.

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- 3. coordinates and supervises the training of Assistant Operating Engineers and Operating Engineers.
- 4. prepares and maintains records, such as amount of work completed, time spent per assignment, costs, materials used, attendance at and completion of training programs, etc.
- 5. ensures that safety procedures are followed at all times.
- 6. is accountable for the maintenance, use, and repair of assigned equipment.
- 7. performs duties of personnel supervised as required.
- 8. performs other related duties as assigned.

MINIMUM ACCEPTABLE QUALIFICATIONS REQUIRED FOR ENTRY INTO:

Level I: Operating Engineer

1392

CREDENTIALS TO BE VERIFIED BY PLACEMENT OFFICER

- 1. Four (4) years of experience and/or vocational training in the operation, maintenance, and minor repair of heavy duty power equipment, such as those listed above, as well as other lighter duty power equipment used in construction and maintenance work.
- 2. Possession of a valid Illinois driver's license appropriate to the equipment to be driven.

KNOWLEDGE, SKILLS AND ABILITIES (KSAs)

- 1. Building and Construction Knowledge of materials, methods, and the tools involved in the construction or repair of houses, buildings, or other structures such as highways and roads.
- 2. Mechanical Knowledge of machines and tools, including their designs, uses, repair, and maintenance.
- 3. Operation and Control Controlling operations of equipment or systems.
- 4. Operation Monitoring Watching gauges, dials, or other indicators to make sure a machine is working properly.
- 5. Monitoring Monitoring/Assessing performance of yourself, other individuals, or organizations to make improvements or take corrective action.
- 6. Coordination Adjusting actions in relation to others' actions.
- 7. Equipment Maintenance Performing routine maintenance on equipment and determining when and what kind of maintenance is needed.
- 8. Troubleshooting Determining causes of operating errors and deciding what to do about it.

- 9. Control Precision The ability to quickly and repeatedly adjust the controls of a machine or a vehicle to exact positions.
- 10. Depth Perception The ability to judge which of several objects is closer or farther away from you, or to judge the distance between you and an object.
- 11. Multilimb Coordination The ability to coordinate two or more limbs (for example, two arms, two legs, or one leg and one arm) while sitting, standing, or lying down. It does not involve performing the activities while the whole body is in motion.
- 12. Near Vision The ability to see details at close range (within a few feet of the observer).
- 13. Far Vision The ability to see details at a distance.
- 14. Manual Dexterity The ability to quickly move your hand, your hand together with your arm, or your two hands to grasp, manipulate, or assemble objects.
- 15. Problem Sensitivity The ability to tell when something is wrong or is likely to go wrong. It does not involve solving the problem, only recognizing there is a problem.
- 16. Rate Control The ability to time your movements or the movement of a piece of equipment in anticipation of changes in the speed and/or direction of a moving object or scene.
- 17. Arm-Hand Steadiness The ability to keep your hand and arm steady while moving your arm or while holding your arm and hand in one position.
- Reaction Time The ability to quickly respond (with the hand, finger, or foot) to a signal (sound, light, picture) when it appears.
- Operating Vehicles, Mechanized Devices, or Equipment Running, maneuvering, navigating, or driving vehicles or mechanized equipment, such as forklifts, passenger vehicles, aircraft, or water craft.
- 20. Inspecting Equipment, Structures, or Material Inspecting equipment, structures, or materials to identify the cause of errors or other problems or defects.
- 21. Getting Information Observing, receiving, and otherwise obtaining information from all relevant sources.
- 22. Controlling Machines and Processes Using either control mechanisms or direct physical activity to operate machines or processes (not including computers or vehicles).
- 23. Monitor Processes, Materials, or Surroundings Monitoring and reviewing information from materials, events, or the environment, to detect or assess problems.
- 24. Handling and Moving Objects Using hands and arms in handling, installing, positioning, and moving materials, and manipulating things.

- 25. Making Decisions and Solving Problems Analyzing information and evaluating results to choose the best solution and solve problems.
- 26. Communicating with Supervisors, Peers, or Subordinates Providing information to supervisors, co-workers, and subordinates by telephone, in written form, e-mail, or in person.
- 27. Processing Information Compiling, coding, categorizing, calculating, tabulating, auditing, or verifying information or data.
- 28. Repairing and Maintaining Mechanical Equipment Servicing, repairing, adjusting, and testing machines, devices, moving parts, and equipment that operate primarily on the basis of mechanical (not electronic) principles.

Level II: Operative Crane Engineer

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CREDENTIALS TO BE VERIFIED BY PLACEMENT OFFICER

- 1. Two (2) years of experience and/or vocational training in the operation, maintenance, and minor repair of heavy duty power equipment and other lighter duty power equipment used in construction and maintenance work.
- 2. Two (2) years of experience in the operation, maintenance, and minor repair of power cranes.
- 3. Possession of a valid Illinois driver's license appropriate to the equipment to be driven.

KNOWLEDGE, SKILLS AND ABILITIES (KSAs)

- 1. Building and Construction Knowledge of materials, methods, and the tools involved in the construction or repair of houses, buildings, or other structures such as highways and roads.
- 2. Mechanical Knowledge of machines and tools, including their designs, uses, repair, and maintenance.
- 3. Operation and Control Controlling operations of equipment or systems.
- 4. Operation Monitoring Watching gauges, dials, or other indicators to make sure a machine is working properly.
- 5. Monitoring Monitoring/Assessing performance of yourself, other individuals, or organizations to make improvements or take corrective action.
- 6. Coordination Adjusting actions in relation to others' actions.
- 7. Equipment Maintenance Performing routine maintenance on equipment and determining when and what kind of maintenance is needed.
- 8. Troubleshooting Determining causes of operating errors and deciding what to do about it.

- 9. Control Precision The ability to quickly and repeatedly adjust the controls of a machine or a vehicle to exact positions.
- 10. Depth Perception The ability to judge which of several objects is closer or farther away from you, or to judge the distance between you and an object.
- Multilimb Coordination The ability to coordinate two or more limbs (for example, two arms, two legs, or one leg and one arm) while sitting, standing, or lying down. It does not involve performing the activities while the whole body is in motion.
- 12. Near Vision The ability to see details at close range (within a few feet of the observer).
- 13. Far Vision The ability to see details at a distance.
- 14. Manual Dexterity The ability to quickly move your hand, your hand together with your arm, or your two hands to grasp, manipulate, or assemble objects.
- 15. Problem Sensitivity The ability to tell when something is wrong or is likely to go wrong. It does not involve solving the problem, only recognizing there is a problem.
- 16. Rate Control The ability to time your movements or the movement of a piece of equipment in anticipation of changes in the speed and/or direction of a moving object or scene.
- 17. Arm-Hand Steadiness The ability to keep your hand and arm steady while moving your arm or while holding your arm and hand in one position.
- Reaction Time The ability to quickly respond (with the hand, finger, or foot) to a signal (sound, light, picture) when it appears.
- Operating Vehicles, Mechanized Devices, or Equipment Running, maneuvering, navigating, or driving vehicles or mechanized equipment, such as forklifts, passenger vehicles, aircraft, or water craft.
- 20. Inspecting Equipment, Structures, or Material Inspecting equipment, structures, or materials to identify the cause of errors or other problems or defects.
- 21. Getting Information Observing, receiving, and otherwise obtaining information from all relevant sources.
- 22. Controlling Machines and Processes Using either control mechanisms or direct physical activity to operate machines or processes (not including computers or vehicles).
- 23. Monitor Processes, Materials, or Surroundings Monitoring and reviewing information from materials, events, or the environment, to detect or assess problems.
- 24. Handling and Moving Objects Using hands and arms in handling, installing, positioning, and moving materials, and manipulating things.

- 25. Making Decisions and Solving Problems Analyzing information and evaluating results to choose the best solution and solve problems.
- 26. Communicating with Supervisors, Peers, or Subordinates Providing information to supervisors, co-workers, and subordinates by telephone, in written form, e-mail, or in person.
- 27. Processing Information Compiling, coding, categorizing, calculating, tabulating, auditing, or verifying information or data.
- 28. Repairing and Maintaining Mechanical Equipment Servicing, repairing, adjusting, and testing machines, devices, moving parts, and equipment that operate primarily on the basis of mechanical (not electronic) principles.
- NOTE: If required by the employer, employees of this class will be expected to enroll (on their own time) in an upgrade (training) program for a minimum of 40 hours per year for three years as provided by the Local of the Operating Engineer's Union in order to qualify for promotion (i.e., in order to be admitted to the civil service examination) for the class of Operating Engineer.

Level III: Operating Engineer Foreman

CREDENTIALS TO BE VERIFIED BY PLACEMENT OFFICER

- Six (6) years of experience and/or vocational training in the operation, maintenance, and minor repair of heavy power equipment used in construction and maintenance work, two of which must have been in the operation, maintenance, and minor repair of power cranes.
- 2. Possession of a valid Illinois driver's license appropriate to the equipment to be driven.

KNOWLEDGE, SKILLS AND ABILITIES (KSAs)

- 1. Building and Construction Knowledge of materials, methods, and the tools involved in the construction or repair of houses, buildings, or other structures such as highways and roads.
- Mechanical Knowledge of machines and tools, including their designs, uses, repair, and maintenance.
- 3. Operation and Control Controlling operations of equipment or systems.
- 4. Operation Monitoring Watching gauges, dials, or other indicators to make sure a machine is working properly.
- 5. Monitoring Monitoring/Assessing performance of yourself, other individuals, or organizations to make improvements or take corrective action.
- 6. Coordination Adjusting actions in relation to others' actions.
- 7. Equipment Maintenance Performing routine maintenance on equipment and determining when and what kind of maintenance is needed.

Commented [JB2]: Do they really need two years in power crane operation?

Commented [JB1]: Does this remain necessary???

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- 8. Troubleshooting Determining causes of operating errors and deciding what to do about it.
- 9. Control Precision The ability to quickly and repeatedly adjust the controls of a machine or a vehicle to exact positions.
- 10. Depth Perception The ability to judge which of several objects is closer or farther away from you, or to judge the distance between you and an object.
- 11. Multilimb Coordination The ability to coordinate two or more limbs (for example, two arms, two legs, or one leg and one arm) while sitting, standing, or lying down. It does not involve performing the activities while the whole body is in motion.
- 12. Near Vision The ability to see details at close range (within a few feet of the observer).
- 13. Far Vision The ability to see details at a distance.
- 14. Manual Dexterity The ability to quickly move your hand, your hand together with your arm, or your two hands to grasp, manipulate, or assemble objects.
- 15. Problem Sensitivity The ability to tell when something is wrong or is likely to go wrong. It does not involve solving the problem, only recognizing there is a problem.
- 16. Rate Control The ability to time your movements or the movement of a piece of equipment in anticipation of changes in the speed and/or direction of a moving object or scene.
- 17. Arm-Hand Steadiness The ability to keep your hand and arm steady while moving your arm or while holding your arm and hand in one position.
- 18. Reaction Time The ability to quickly respond (with the hand, finger, or foot) to a signal (sound, light, picture) when it appears.
- Operating Vehicles, Mechanized Devices, or Equipment Running, maneuvering, navigating, or driving vehicles or mechanized equipment, such as forklifts, passenger vehicles, aircraft, or water craft.
- 20. Inspecting Equipment, Structures, or Material Inspecting equipment, structures, or materials to identify the cause of errors or other problems or defects.
- 21. Getting Information Observing, receiving, and otherwise obtaining information from all relevant sources.
- 22. Controlling Machines and Processes Using either control mechanisms or direct physical activity to operate machines or processes (not including computers or vehicles).
- 23. Monitor Processes, Materials, or Surroundings Monitoring and reviewing information from materials, events, or the environment, to detect or assess problems.

- 24. Handling and Moving Objects Using hands and arms in handling, installing, positioning, and moving materials, and manipulating things.
- 25. Making Decisions and Solving Problems Analyzing information and evaluating results to choose the best solution and solve problems.
- 26. Communicating with Supervisors, Peers, or Subordinates Providing information to supervisors, co-workers, and subordinates by telephone, in written form, e-mail, or in person.
- 27. Processing Information Compiling, coding, categorizing, calculating, tabulating, auditing, or verifying information or data.
- 28. Repairing and Maintaining Mechanical Equipment Servicing, repairing, adjusting, and testing machines, devices, moving parts, and equipment that operate primarily on the basis of mechanical (not electronic) principles.
- 29. Supervisory ability Lead and supervise staff and student workers.