

PLUMBER (PUMP AND TANK)

APPENDIX A

O*NET CODE 47-2152.01

This training outline is a minimum standard for Work Processes and Related Instruction. Changes in technology and regulations may result in the need for additional on-the-job or classroom training.

WORK PROCESSES

The following tasks and work processes are performed solely in connection with the Pump and Tank trade.

	Approximate Hours
A. Rigging and Material Handling	215
1. Using proper signaling.	
2. Unloading materials in safe manner.	
3. Using personnel lifts properly.	
B. Tools, Machines and Equipment	750
1. Safety.	
2. Basic hand tools: care, use, maintenance.	
3. Power tools: care, use, maintenance.	
4. Safely operating vehicles that require a Commercial Driver's License (CDL), including dump truck, flatbed, or covered truck to move tools, materials, equipment (does not include operation of any heavy equipment).	
C. Materials	215
1. Properly identifying, and demonstrating familiarity with grades, types, and appropriate uses of trade materials.	
D. Basic Installations	1700
1. Planning and layout.	
2. Cutting structural openings as required.	
3. Cutting and threading pipe.	
4. Pipe joining.	
5. Securing pipes.	
6. Shoring (unless customarily performed by another trade).	

7. Bedding and leveling pipe; using shovel, transit and level (does not include excavation and trenching).
8. Connection to outside lines.
9. Awareness of dewatering process as performed by Operating Engineer.
10. Basic monitoring of whole service station site for environmental spills that may occur accidentally during the course of installing or repairing transportation fuel tanks. Performing emergency containment and abatement of such incidental spills inspection and testing.

E. Cutting and Welding 320

1. Using cutting torch.
2. Basic welding.

F. Controls: Installation, Maintenance, Repair 530

1. Hydraulic controls.
2. Pneumatic controls.

G. Specialized Plumbing Work 1070

1. Tank installations (does not include operation of any heavy equipment).
2. Water purification.
3. Sewage disposal.
4. Tank connections.
5. Tank inspection and testing.
6. Using specialized materials - such as fiberglass pipe, epoxy resins, double-wall containment systems, plastic fusion piping.
7. Fire suppression.
8. Vapor recovery systems (on existing construction).

H. Gasoline Installations and Repairs 1070

1. Gasoline installation.
2. Alternative fuel installations.
3. Sizing and venting gas and fuel systems.
4. Maintaining and repairing gas and fuel systems.

I. Transportation Fuel Oil and Waste Oil Installation and Repair 1070

1. Connecting fuel oil tank pump and equipment.

2. Maintaining and repairing.

J. Sanitary Plumbing Fixtures and Appliances **530**

1. Assembling, positioning, and connecting.
2. Calibrating and testing.
3. Maintaining and repairing.

K. Tank Removal and Tank Abandonment (Transportation Fuel Tanks Only) **530**

1. Demonstrating knowledge of codes and safety practices.
2. Conforming to local requirements.
3. Basic monitoring of whole service station site for environmental spills that may occur accidentally during the course of removing transportation fuel tanks.
4. Performing emergency containment and abatement of such incidental spills.
5. Removal of tanks (does not include operation of any heavy equipment).

Approximate Total Hours **8,000**

Apprenticeship work processes are applicable only to training curricula for apprentices in approved programs. Apprenticeship work processes have no impact on classification determinations under Article 8 or 9 of the Labor Law. For guidance regarding classification for purposes of Article 8 or 9 of the Labor Law, please refer to <https://dol.ny.gov/public-work-and-prevailing-wage>.

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APPENDIX B

RELATED INSTRUCTION

Health and Safety

1. OSHA 10-hour Construction Course (1st year)
2. First Aid – minimum 6.5 hours every 3 years
3. OSHA 30-hour Certification (1st year)
4. Confined Space Certification (1st year)
5. Commercial Driver's License (CDL) and D.O.T. Regulations (1st year)
6. HAZWOPER 40-hour Certification (1st year, and 8-hour refresher annually)
7. Sexual Harassment Prevention Training – must comply with section 201-g of the Labor Law

Blueprint Reading and Sketching

1. Basic Plan Reading
2. Elementary Drawing

Mathematics

1. Mathematics as Applied to Piping

Trade Theory and Science

1. History of Pump and Tank Industry
2. Basic Related Sciences
3. Industry-Related Materials and Practical Training
4. Rigging and Hand Signals
5. Water Supply and Sources
6. Drainage and Venting
7. Water Contamination
8. Local Plumbing Codes and Regulations
9. Petroleum Equipment in General Use
10. Vendor Training on Tank Installation (as available)
11. Petroleum Industry and Related Codes and Laws
12. Basic Electricity and Wiring
13. Alarm and Control Systems

Other Workplace Skills

1. Industrial and Labor Relations

Other Related Courses as Required

A minimum of 180 hours of Related Instruction is required for each apprentice for each year of the apprenticeship.

Appendix B topics are approved by New York State Education Department.