



APPENDIX A

PLUMBER (PUMP AND TANK)

D.O.T. CODE 862.281-022

O*NET CODE 47-2152.01

This training outline represents the current standard for work processes and related instruction. Changes in technology, regulations, and health & safety issues may result in the need for additional on-the-job or classroom instruction.

WORK PROCESSES

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

	<u>Approximate Hours</u>
A. <u>Rigging and Material Handling</u>	215
1. Using proper signaling	
2. Unloading materials in safe manner	
3. Using personnel lifts properly	
B. <u>Tools, Machines and Equipment</u>	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. <u>Materials</u>	215
1. Properly identifying, and demonstrating familiarity with: grades, types, and appropriate uses of trade materials	

D.	<u>Basic Installations</u>	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	
	11. Inspection and testing	
E.	<u>Cutting and Welding</u>	320
	1. Using cutting torch	
	2. Basic welding	
F.	<u>Controls: Installation, Maintenance, Repair</u>	530
	1. Hydraulic controls	
	2. Pneumatic controls	
G.	<u>Specialized Plumbing Work</u>	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.	<u>Gasoline Installations and Repairs</u>	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.	<u>Transportation Fuel Oil and Waste Oil Installation and Repair</u>	1070
	1. Connecting fuel oil tank pump and equipment	
	2. Maintaining and repairing	
J.	<u>Sanitary Plumbing Fixtures and Appliances</u>	530
	1. Assembling, positioning, and connecting	
	2. Calibrating and testing	
	3. Maintaining and repairing	
K.	<u>Tank Removal and Tank Abandonment</u> <u>(Transportation Fuel Tanks Only)</u>	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. Performing emergency containment and abatement of such incidental spills.	
	4. Removal of tanks (does not include operation of any heavy equipment)	
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	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 <http://www.labor.state.ny.us/workerprotection/publicwork/PDFs/Article8FAQS.pdf>.

APPENDIX B

PLUMBER (PUMP AND TANK)

RELATED INSTRUCTION

Health and Safety

OSHA 10-hour Construction Course (1st year)
First Aid – minimum 6.5 hours every 3 years
OSHA 30-hour Certification (1st year)
Confined Space Certification (1st year)
Commercial Driver’s License (CDL) and D.O.T. Regulations (1st year)
HAZWOPER 40-hour Certification (1st year, and 8-hour refresher annually)

Blueprint Reading and Sketching

Basic Plan Reading
Elementary Drawing

Mathematics

Mathematics as Applied to Piping

Trade Theory

History of Pump and Tank Industry
Basic Related Sciences

Trade Science

Industry-Related Materials and Practical Training
Rigging and Hand Signals
Water Supply and Sources
Drainage and Venting
Water Contamination
Local Plumbing Codes and Regulations
Petroleum Equipment in General Use
Vendor Training on Tank Installation (as available)
Petroleum Industry and Related Codes and Laws
Basic Electricity and Wiring
Alarm and Control Systems

Other Workplace Skills

Industrial and Labor Relations

Sexual Harassment Prevention Training – minimum 3 hours

Other Related Courses as Required

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