

**At Your Pace Online LLC**  
**1383 2nd Ave., Gold Hill, OR 97525**  
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**Utah - 4-hour Topics in Plumbing Continuing Education: Common Plumbing Problems**

**3h 43m 14s**

<b>Section/Topic Titles</b>	<b>Word Count</b>	<b>Minute Count</b>	<b>Section Time</b>	<b>Quiz Q's</b>
I. Introduction to Class on Graywater & Private Onsite Wastewater Treatment Systems (Video)	V	3.2	<b>3m 42s</b>	
Review Question	Q	0.5		1
II. Principles of Graywater	89	1.2	<b>44m 16s</b>	
a. Introduction	267	3.6		
1. Solutions	317	4.2		
2. Reasons to Use Graywater	226	3.0		
b. What is Graywater?	253	3.4		
c. Basic Rules	401	5.3		
d. Economics	238	3.2		
e. Health Concerns	469	6.3		
f. Graywater to Potable Water Treatment	417	5.6		
g. Laws and Rules	299	4.0		
Review Question	Q	0.5		1
III. Design & Installation of Graywater Systems	252	3.4	<b>33m 57s</b>	
a. Graywater Supply	219	2.9		
1. Sample Procedure for Estimating Graywater Discharge	128	1.7		
2. Commercial Graywater Supply	93	1.2		
b. Matching Demand and Supply	246	3.3		
c. Irrigation Systems	57	0.8		

1. Water Source	191	2.5		
2. Soil Type	463	6.2		
3. Vegetation to be Watered	150	2.0		
4. Location & Clearances Required	123	1.6		
5. Laundry to Landscape	587	7.8		
Review Question	Q	0.5		1
<b>IV. Best Practices and Codes for Graywater Systems</b>	<b>7</b>	<b>0.1</b>	<b>34m 23s</b>	
a. Best Sources	158	2.1		
b. Recommended Installation Elements	450	6.0		
c. Recommended Maintenance Protocols	189	2.5		
d. Codes	1	0.0		
1. 2015 IPC® Section 1302 On-Site Nonpotable Water Reuse Systems	1123	15.0		
2. 2015 UPC® Chapter 15 Alternate Water Sources for Nonpotable Applications	613	8.2		
Review Question	Q	0.5		1
<b>V. Private Onsite Wastewater Treatment Systems (Video)</b>	<b>V</b>	<b>3.7</b>	<b>4m 12s</b>	
Review Question	Q	0.5		1
<b>VI. Private Onsite Wastewater Treatment Systems (POWTS)</b>	<b>5</b>	<b>0.1</b>	<b>50m 44s</b>	
a. History & Development of Private On-Site Water Treatment Systems POWTS	866	11.5		
b. Principles	283	3.8		
c. Basic Design	503	6.7		
1. Flow Velocity	153	2.0		
2. Gravity or Pump-Based Collection and Distribution	312	4.2		
3. Sizing - Estimating Wastewater Flow	485	6.5		
a. Estimating for Commercial Facilities	108	1.4		
b. Estimating Contaminant Loads	52	0.7		
d. Disposal Field	174	2.3		
e. Role of the Septic Tank	355	4.7		

1. Sludge and Scum	210	2.8		
2. A Note on Garbage Disposals	267	3.6		
Review Question	Q	0.5		1
VII. POWTS Design and Installation	31	0.4	<b>51m 6s</b>	
a. Septic Tanks	2	0.0		
1. Location Compartments and Capacity	303	4.0		
2. Tank Material and Backfill	111	1.5		
3. Access and Tank Inlet and Outlet	276	3.7		
4. Cleaning Septic Tanks	129	1.7		
5. Chemical Additives	149	2.0		
6. Laws and Regulations	445	5.9		
b. Soil Absorption Systems	355	4.7		
1. Percolation Tests	197	2.6		
2. Site Preparation and Construction	140	1.9		
3. Seepage Pits	124	1.7		
c. Alternative POWTS	122	1.6		
d. Utah Regulations	156	2.1		
1. R317-4-7. Construction and Installation	488	6.5		
2. Construction and Installation Part 2	416	5.5		
3. R317-4-8. Final Inspections	351	4.7		
Review Question	Q	0.5		1
VIII. End of the Class (Video)	V	0.4	<b>0m 54s</b>	
Review Question	Q	0.5		1
<b>Total Word Count</b>	15895	211.9	<b>3h 31m 56s</b>	
<b>Total Presented Questions</b>	8	4.0	<b>0h 4m 0s</b>	
<b>Total Video Time</b>		7.3	<b>0h 7m 18s</b>	
<b>Total Time for Words and Questions</b>		223.2	<b>3h 43m 14s</b>	





