

| A-Surface - 70 Questions on Test | | Needs to Know | | |
|--|------------------------------------|----------------------------|---|---|
| Category | Number of questions on exam | Composition of test | Number of questions in test bank | Study Material |
| Administration | 2 | 2.86% | 7 | WTPO Vol. 2, 7th Ed. Chap. 9 |
| Bacteriology | 3 | 4.29% | 13 | Rules Gov. Public Water Sys. (Green Book) |
| Coagulation/Flocculation | 3 | 4.29% | 14 | WTPO Vol. 1, 7th Ed. Chap. 3 |
| Corrosion Control | 2 | 2.86% | 10 | WTPO Vol. 1, 7th Ed. Chap. 7 |
| Cross Connection | 1 | 1.43% | 5 | Rules Gov. Public Water Sys. (Green Book) |
| Disinfection Byproducts | 1 | 1.43% | 7 | Rules Gov. Public Water Sys. (Green Book) |
| Disinfection | 2 | 2.86% | 19 | WTPO Vol. 1, 7th Ed. Chap. 6 |
| Process Waste | 2 | 2.86% | 4 | WTPO Vol. 2, 7th Ed. Chap. 6 |
| Distribution System | 2 | 2.86% | 6 | Rules Gov. Public Water Sys. (Green Book) |
| Filtration | 2 | 2.86% | 13 | WTPO Vol. 1, 7th Ed. Chap. 5 |
| Fluoridation | 3 | 4.29% | 7 | WTPO Vol. 2, 7th Ed. Chap. 4 |
| Instrumentation | 3 | 4.29% | 9 | WTPO Vol. 2, 7th Ed. Chap. 7 |
| Iron/Manganese Control | 3 | 4.29% | 11 | WTPO Vol. 2, 7th Ed. Chap. 3 |
| Lab Procedures | 3 | 4.29% | 17 | WTPO Vol. 1, 7th Ed. Chap. 9 |
| Maintenance | 3 | 4.29% | 11 | WTPO Vol. 2, 7th Ed. Chap. 8 |
| Plant Operation | 3 | 4.29% | 7 | SWSOM, 6th Ed. Chap. 3 |
| Pumps | 3 | 4.29% | 6 | WTPO Vol. 2, 7th Ed. Chap. 8 |
| Reservoir Management | 2 | 2.86% | 11 | WTPO Vol. 1, 7th Ed. Chap. 2 |
| Rules – CB | 1 | 1.43% | 10 | Rules Gov. Water Treatment Facility Operators |
| Rules – PWS | 2 | 2.86% | 25 | Rules Gov. Public Water Sys. (Green Book) |
| Safety | 3 | 4.29% | 13 | WTPO Vol. 2, 7th Ed. Chap. 1 |
| Sedimentation | 2 | 2.86% | 9 | WTPO Vol. 1, 7th Ed. Chap. 4 |
| Taste/Odor Control | 3 | 4.29% | 8 | WTPO Vol. 1, 7th Ed. Chap. 8 |
| WTP Operations | 1 | 1.43% | 3 | SWSOM, 6th Ed. Chap. 3 |
| Math – Flow Rate | 2 | 2.86% | 7 | See Math Formula Sheet |
| Math – Fluoridation | 2 | 2.86% | 5 | See Math Formula Sheet |
| Math – Coagulation | 2 | 2.86% | 7 | See Math Formula Sheet |
| Math – Disinfection | 1 | 1.43% | 4 | See Math Formula Sheet |
| Math – Dose/Feed Rate | 3 | 4.29% | 11 | See Math Formula Sheet |
| Math – Filtration Rate | 2 | 2.86% | 7 | See Math Formula Sheet |
| Math – Pumps | 2 | 2.86% | 10 | See Math Formula Sheet |
| Math – Solutions | 1 | 1.43% | 4 | See Math Formula Sheet |
| Water Treatment Plant Operators Manual (WTPO). | | | | |
| Small Water Systems Operations & Maintenance Manual (SWSOM). | | | | |

| B-Surface - 45 Questions on Test | | Needs to Know | | |
|--|------------------------------------|----------------------------|---|---|
| Category | Number of questions on exam | Composition of test | Number of questions in test bank | Study Material |
| Bacteriology | 2 | 4.44% | 13 | Rules Gov. Public Water Sys. (Green Book) |
| Coagulation/Flocculation | 2 | 4.44% | 10 | WTPO Vol. 1, 7th Ed. Chap. 3 |
| Corrosion Control | 2 | 4.44% | 3 | WTPO Vol. 1, 7th Ed. Chap. 7 |
| Cross Connection | 1 | 2.22% | 6 | Rules Gov. Public Water Sys. (Green Book) |
| Disinfection Byproducts | 1 | 2.22% | 5 | Rules Gov. Public Water Sys. (Green Book) |
| Disinfection | 2 | 4.44% | 12 | WTPO Vol. 1, 7th Ed. Chap. 6 |
| Disposal of Waste | 1 | 2.22% | 5 | WTPO Vol. 2, 7th Ed. Chap. 6 |
| Distribution System | 2 | 4.44% | 7 | Rules Gov. Public Water Sys. (Green Book) |
| Filtration | 2 | 4.44% | 10 | WTPO Vol. 1, 7th Ed. Chap. 5 |
| Fluoridation | 2 | 4.44% | 6 | WTPO Vol. 2, 7th Ed. Chap. 4 |
| Instrumentation | 2 | 4.44% | 5 | WTPO Vol. 2, 7th Ed. Chap. 7 |
| Iron/Manganese Control | 1 | 2.22% | 8 | WTPO Vol. 2, 7th Ed. Chap. 3 |
| Lab Procedures | 2 | 4.44% | 8 | WTPO Vol. 1, 7th Ed. Chap. 9 |
| Maintenance | 2 | 4.44% | 3 | WTPO Vol. 2, 7th Ed. Chap. 8 |
| Plant Operations | 2 | 4.44% | 5 | SWSOM, 6th Ed. Chap. 3 |
| Pumps | 2 | 4.44% | 6 | WTPO Vol. 2, 7th Ed. Chap. 8 |
| Reservoir Management | 1 | 2.22% | 8 | WTPO Vol. 1, 7th Ed. Chap. 2 |
| Rules – CB | 1 | 2.22% | 10 | Rules Gov. Water Treatment Facility Operators |
| Rules – PWS | 1 | 2.22% | 21 | Rules Gov. Public Water Sys. (Green Book) |
| Safety | 2 | 4.44% | 11 | WTPO Vol. 2, 7th Ed. Chap. 1 |
| Sedimentation | 1 | 2.22% | 7 | WTPO Vol. 1, 7th Ed. Chap. 4 |
| Taste/Odor Control | 1 | 2.22% | 9 | WTPO Vol. 1, 7th Ed. Chap. 8 |
| Math – Flow Rate | 1 | 2.22% | 4 | See Math Formula Sheet |
| Math – Fluoridation | 2 | 4.44% | 3 | See Math Formula Sheet |
| Math – Volume | 1 | 2.22% | 4 | See Math Formula Sheet |
| Math – Detention time | 2 | 4.44% | 6 | See Math Formula Sheet |
| Math – Dose/Feed Rate | 1 | 2.22% | 12 | See Math Formula Sheet |
| Math – Filtration Rate | 1 | 2.22% | 5 | See Math Formula Sheet |
| Math – Pumps | 1 | 2.22% | 4 | See Math Formula Sheet |
| Math – Solutions | 1 | 2.22% | 6 | See Math Formula Sheet |
| Water Treatment Plant Operators Manual (WTPO). | | | | |
| Small Water Systems Operations & Maintenance Manual (SWSOM). | | | | |

| C-Surface - 45 Questions on Test | | Needs to Know | | | | |
|--|------------------------------------|----------------------------|---|---|--|--|
| Category | Number of questions on exam | Composition of test | Number of questions in test bank | Study Material | | |
| Bacteriology | 2 | 4.44% | 11 | Rules Gov. Public Water Sys. (Green Book) | | |
| Coagulation/Flocculation | 2 | 4.44% | 7 | WTPO Vol. 1, 7th Ed. Chap. 3 | | |
| Corrosion Control | 2 | 4.44% | 3 | WTPO Vol. 1, 7th Ed. Chap. 7 | | |
| Cross Connection | 1 | 2.22% | 4 | Rules Gov. Public Water Sys. (Green Book) | | |
| Disinfection Byproducts | 1 | 2.22% | 2 | Rules Gov. Public Water Sys. (Green Book) | | |
| Disinfection | 2 | 4.44% | 12 | SWSOM, 6th Ed. Chap. 4 | | |
| Distribution System | 1 | 2.22% | 2 | Rules Gov. Public Water Sys. (Green Book) | | |
| Filtration | 1 | 2.22% | 5 | WTPO Vol. 1, 7th Ed. Chap. 5 | | |
| Iron/Manganese Control | 2 | 4.44% | 7 | SWSOM, 6th Ed. Chap. 3 | | |
| Jar Test | 2 | 4.44% | 8 | SWSOM, 6th Ed. Chap. 6 | | |
| Lab Procedures | 2 | 4.44% | 10 | SWSOM, 6th Ed. Chap. 6 | | |
| Maintenance | 2 | 4.44% | 2 | SWSOM, 6th Ed. Chap. 3 | | |
| Plant Operations | 2 | 4.44% | 7 | SWSOM, 6th Ed. Chap. 3 | | |
| Pumps | 2 | 4.44% | 2 | WTPO Vol. 2, 7th Ed. Chap. 8 | | |
| Reservoir Management | 2 | 4.44% | 9 | WTPO Vol. 1, 7th Ed. Chap. 2 | | |
| Rules – CB | 1 | 2.22% | 10 | Rules Gov. Water Treatment Facility Operators | | |
| Rules – PWS | 3 | 6.66% | 11 | Rules Gov. Public Water Sys. (Green Book) | | |
| Safety | 2 | 4.44% | 8 | SWSOM, 6th Ed. Chap. 5 | | |
| Sedimentation | 1 | 2.22% | 5 | WTPO Vol. 1, 7th Ed. Chap. 4 | | |
| Taste/Odor Control | 2 | 4.44% | 5 | WTPO Vol. 1, 7th Ed. Chap. 8 | | |
| Math – Averages | 1 | 2.22% | 1 | See Math Formula Sheet | | |
| Math – Conversions | 2 | 4.44% | 4 | See Math Formula Sheet | | |
| Math – Detention Time | 2 | 4.44% | 4 | See Math Formula Sheet | | |
| Math – Dose/Feed Rate | 3 | 6.66% | 17 | See Math Formula Sheet | | |
| Math – Volume | 2 | 4.44% | 3 | See Math Formula Sheet | | |
| Water Treatment Plant Operators Manual (WTPO). | | | | | | |
| Small Water Systems Operations & Maintenance Manual (SWSOM). | | | | | | |

| A-Well - 70 Questions on Test | | Needs to Know | | |
|--|------------------------------------|----------------------------|---|---|
| Category | Number of questions on exam | Composition of test | Number of questions in test bank | Study Material |
| Administration | 3 | 4.29% | 6 | WTPO Vol. 2, 7th Ed. Chap. 9 |
| Bacteriology | 3 | 4.29% | 13 | Rules Gov. Public Water Sys. (Green Book) |
| Corrosion Control | 3 | 4.29% | 8 | WTPO Vol. 1, 7th Ed. Chap. 7 |
| Cross Connection | 1 | 1.43% | 8 | Rules Gov. Public Water Sys. (Green Book) |
| Disinfection Byproducts | 2 | 2.86% | 4 | Rules Gov. Public Water Sys. (Green Book) |
| Disinfection | 1 | 1.43% | 19 | WTPO Vol. 1, 7th Ed. Chap. 6 |
| Process Waste | 3 | 4.29% | 6 | WTPO Vol. 2, 7th Ed. Chap. 6 |
| Distribution System | 2 | 2.86% | 16 | Rules Gov. Public Water Sys. (Green Book) |
| Fluoridation | 3 | 4.29% | 9 | WTPO Vol. 2, 7th Ed. Chap. 4 |
| Instrumentation | 3 | 4.29% | 5 | WTPO Vol. 2, 7th Ed. Chap. 7 |
| Iron/Manganese Control | 3 | 4.29% | 9 | WTPO Vol. 2, 7th Ed. Chap. 3 |
| Lab Procedures | 3 | 4.29% | 7 | WTPO Vol. 1, 7th Ed. Chap. 9 |
| Maintenance | 3 | 4.29% | 11 | WTPO Vol. 2, 7th Ed. Chap. 8 |
| Membrane Treatment | 3 | 4.29% | 12 | WTPO Vol. 2, 7th Ed. Chap. 5 |
| Rules – CB | 2 | 2.86% | 10 | Rules Gov. Water Treatment Facility Operators |
| Rules – PWS | 2 | 2.86% | 40 | Rules Gov. Public Water Sys. (Green Book) |
| Safety | 3 | 4.29% | 8 | WTPO Vol. 2, 7th Ed. Chap. 1 |
| Softening | 3 | 4.29% | 14 | WTPO Vol. 2, 7th Ed. Chap. 2 |
| Wells Construction | 3 | 4.29% | 10 | NC Well Construction Standards (Red Book) |
| Wells Hydrology | 3 | 4.29% | 10 | SWSOM, 6th Ed. Chap. 2 |
| Wells Pumps | 3 | 4.29% | 4 | SWSOM, 6th Ed. Chap. 2 |
| Math – Demineralization | 2 | 2.86% | 4 | See Math Formula Sheet |
| Math – Detention Time | 1 | 1.43% | 8 | See Math Formula Sheet |
| Math – Disinfection | 2 | 2.86% | 16 | See Math Formula Sheet |
| Math - Dose/Feed Rate | 1 | 1.43% | 4 | See Math Formula Sheet |
| Math – Filtration | 2 | 2.86% | 6 | See Math Formula Sheet |
| Math – Flow Rate | 2 | 2.86% | 6 | See Math Formula Sheet |
| Math – Fluoridation | 2 | 2.86% | 9 | See Math Formula Sheet |
| Math – Pressure Head | 1 | 1.43% | 3 | See Math Formula Sheet |
| Math – Pumps | 1 | 1.43% | 8 | See Math Formula Sheet |
| Math – Softening | 1 | 1.43% | 6 | See Math Formula Sheet |
| Water Treatment Plant Operators Manual (WTPO). | | | | |
| Small Water Systems Operations & Maintenance Manual (SWSOM). | | | | |

| B-Well - 45 Questions on Test | | Needs to Know | | |
|--|------------------------------------|----------------------------|---|---|
| Category | Number of questions on exam | Composition of test | Number of questions in test bank | Study Material |
| Bacteriology | 2 | 4.44% | 10 | Rules Gov. Public Water Sys. (Green Book) |
| Corrosion Control | 2 | 4.44% | 2 | WTPO Vol. 1, 7th Ed. Chap. 7 |
| Cross Connection | 1 | 2.22% | 6 | Rules Gov. Public Water Sys. (Green Book) |
| Disinfection Byproducts | 1 | 2.22% | 4 | Rules Gov. Public Water Sys. (Green Book) |
| Disinfection | 1 | 2.22% | 14 | WTPO Vol. 1, 7th Ed. Chap. 6 |
| Process Waste | 1 | 2.22% | 7 | WTPO Vol. 2, 7th Ed. Chap. 6 |
| Distribution System | 1 | 2.22% | 12 | Rules Gov. Public Water Sys. (Green Book) |
| Fluoridation | 2 | 4.44% | 6 | WTPO Vol. 2, 7th Ed. Chap. 4 |
| Instrumentation | 2 | 4.44% | 4 | WTPO Vol. 2, 7th Ed. Chap. 7 |
| Iron/Manganese Control | 2 | 4.44% | 9 | WTPO Vol. 2, 7th Ed. Chap. 3 |
| Lab Procedures | 2 | 4.44% | 9 | WTPO Vol. 1, 7th Ed. Chap. 9 |
| Maintenance | 2 | 4.44% | 8 | WTPO Vol. 2, 7th Ed. Chap. 8 |
| Membrane | 2 | 4.44% | 6 | WTPO Vol. 2, 7th Ed. Chap. 5 |
| Rules – CB | 1 | 2.22% | 10 | Rules Gov. Water Treatment Facility Operators |
| Rules – PWS | 1 | 2.22% | 14 | Rules Gov. Public Water Sys. (Green Book) |
| Safety | 2 | 4.44% | 7 | WTPO Vol. 2, 7th Ed. Chap. 1 |
| Softening | 2 | 4.44% | 9 | WTPO Vol. 2, 7th Ed. Chap. 2 |
| Well Water Chemistry | 2 | 4.44% | 3 | SWSOM, 6th Ed. Chap. 6 |
| Well Construction | 2 | 4.44% | 13 | NC Well Construction Standards (Red Book) |
| Well Hydrology | 2 | 4.44% | 7 | SWSOM, 6th Ed. Chap. 2 |
| Well Pumps | 2 | 4.44% | 6 | SWSOM, 6th Ed. Chap. 2 |
| Math – Detention Time | 1 | 2.22% | 4 | See Math Formula Sheet |
| Math - Disinfection | 2 | 4.44% | 10 | See Math Formula Sheet |
| Math – Dose/Feed Rate | 1 | 2.22% | 12 | See Math Formula Sheet |
| Math - Filtration | 1 | 2.22% | 6 | See Math Formula Sheet |
| Math – Flow Rate | 1 | 2.22% | 6 | See Math Formula Sheet |
| Math – Fluoridation | 2 | 4.44% | 9 | See Math Formula Sheet |
| Math – Pressure Head | 1 | 2.22% | 2 | See Math Formula Sheet |
| Math – Pumps | 1 | 2.22% | 4 | See Math Formula Sheet |
| Water Treatment Plant Operators Manual (WTPO). | | | | |
| Small Water Systems Operations & Maintenance Manual (SWSOM). | | | | |

C-Well - 45 Questions on Test**Needs to Know**

| Category | Number of questions on exam | Composition of test | Number of questions in test bank | Study Material |
|--|------------------------------------|----------------------------|---|---|
| Bacteriology | 2 | 4.44% | 7 | Rules Gov. Public Water Sys. (Green Book) |
| Corrosion Control | 2 | 4.44% | 7 | WTPO Vol. 1, 7th Ed. Chap. 7 |
| Cross Connection | 1 | 2.22% | 8 | Rules Gov. Public Water Sys. (Green Book) |
| Disinfection Byproducts | 1 | 2.22% | 1 | Rules Gov. Public Water Sys. (Green Book) |
| Disinfection | 2 | 4.44% | 8 | SWSOM, 6th Ed. Chap. 4 |
| Dist System | 1 | 2.22% | 9 | Rules Gov. Public Water Sys. (Green Book) |
| Lab Procedures | 2 | 4.44% | 7 | SWSOM, 6th Ed. Chap. 6 |
| Maintenance | 2 | 4.44% | 4 | SWSOM, 6th Ed. Chap. 3 |
| Rules – CB | 2 | 4.44% | 10 | Rules Gov. Water Treatment Facility Operators |
| Rules – PWS | 3 | 6.66% | 17 | Rules Gov. Public Water Sys. (Green Book) |
| Safety | 2 | 4.44% | 6 | SWSOM, 6th Ed. Chap. 5 |
| Small Water Systems | 2 | 4.44% | 4 | SWSOM, 6th Ed. Chap. 3 |
| Softening | 2 | 4.44% | 5 | SWSOM, 6th Ed. Chap. 3 |
| Treatment | 2 | 4.44% | 4 | SWSOM, 6th Ed. Chap. 3 |
| Well Water Chemistry | 2 | 4.44% | 4 | SWSOM, 6th Ed. Chap. 6 |
| Well Construction | 3 | 6.66% | 6 | NC Well Construction Standards (Red Book) |
| Well Hydrology | 2 | 4.44% | 5 | SWSOM, 6th Ed. Chap. 2 |
| Well Pumps | 2 | 4.44% | 3 | SWSOM, 6th Ed. Chap. 2 |
| Math – Conversions | 2 | 4.44% | 5 | See Math Formula Sheet |
| Math – Detention Time | 1 | 2.22% | 7 | See Math Formula Sheet |
| Math - Disinfection | 2 | 4.44% | 10 | See Math Formula Sheet |
| Math – Dose/Feed Rate | 3 | 6.66% | 9 | See Math Formula Sheet |
| Math – Volume | 2 | 4.44% | 4 | See Math Formula Sheet |
| Water Treatment Plant Operators Manual (WTPO). | | | | |
| Small Water Systems Operations & Maintenance Manual (SWSOM). | | | | |

D-Well - 45 Questions on Test Needs to Know

| Category | Number of questions on exam | Composition of test | Number of questions in test bank | Study Material |
|--|------------------------------------|----------------------------|---|---|
| Disinfection | 6 | 13.33% | 12 | SWSOM, 6th Ed. Chap. 4 |
| Dist System & Cross Control | 1 | 2.22% | 4 | Rules Gov. Public Water Sys. (Green Book) |
| Hydrology | 1 | 2.22% | 2 | SWSOM, 6th Ed. Chap. 2 |
| Lab Process- Bacteriology | 5 | 11.11% | 9 | SWSOM, 6th Ed. Chap. 6 |
| Rules - CB | 2 | 4.44% | 9 | Rules Gov. Water Treatment Facility Operators |
| Rules - PWS (5) | 5 | 11.11% | 9 | Rules Gov. Public Water Sys. (Green Book) |
| Safety | 3 | 6.66% | 5 | SWSOM, 6th Ed. Chap. 5 |
| Small Water Systems | 2 | 4.44% | 2 | SWSOM, 6th Ed. Chap. 3 |
| Treatment | 2 | 4.44% | 6 | SWSOM, 6th Ed. Chap. 3 |
| Well Construction | 5 | 11.11% | 10 | NC Well Construction Standards (Red Book) |
| Well Hydrology | 1 | 2.22% | 4 | SWSOM, 6th Ed. Chap. 2 |
| Well Pumps | 2 | 4.44% | 2 | SWSOM, 6th Ed. Chap. 2 |
| Math - Conversions | 2 | 4.44% | 2 | See Math Formula Sheet |
| Math - Disinfection | 3 | 6.66% | 6 | See Math Formula Sheet |
| Math - Dose Feed Rate | 3 | 6.66% | 10 | See Math Formula Sheet |
| Math - Volume | 2 | 4.44% | 3 | See Math Formula Sheet |
| Water Treatment Plant Operators Manual (WTPO). | | | | |
| Small Water Systems Operations & Maintenance Manual (SWSOM). | | | | |