

USGS course name	USGS course number (course code in DOI Learn catalog)	Type of training	Duration of training	Priority				Recommended timeline	Remarks
				Highly recommended for all regions	Highly recommended dependent on regional conditions	Advanced training	Optional-speciality dependent		
Overview of Data Collection at Gaging Stations (audio speakers required)	--	On-Line	20 minutes	X				First days	Water-Resources Investigations Report 99-4120, available at http://wwwrcamnl.wr.usgs.gov/sws/SWTraining/DataAtGagingStations/index.htm
Surface Water Procedures and Policy	SW1660	On-Line	6 hours	X				First weeks	
Measurement of Stream Discharge by Wading (includes FlowTracker module)	SW1271	On-Line	2 hours	X				First weeks	
Cableway Safety - Pre-use Inspection	--	On-Line	1 hour		X			First month (if using cableways)	Water-Resources Investigations Report 99-4038, available at http://wwwrcamnl.wr.usgs.gov/sws/SWTraining/cableways/index.html
Procedures for Running Levels at Gaging Stations	SW1683	On-Line	2 hours	X				First 6 months	
Stream Discharge Measurements From Cableways	SW4292	On-Line	2 hours		X			First 6 months (if using cableways)	
Stream Discharge Measurements Under Ice Cover	SW4288	On-Line	2 hours		X			First 6 months (in cold climates)	
Introduction to Streamgaging--Blended	SW1749	Instructor led	4 days	X				First 6 months	Blended learning class with prerequisites SW1660 and SW1683.
Streamflow Measurements using ADCP's (SonTek/RDI)	SW1321	Instructor Led	5 days	X				First year	Required training for anyone using ADCPs as per OSW TM 2002.02. Held throughout nation at WSCs about 3 to 5 times a year.
Mastering the WinRiver II Measurement Wizard with a Rio Grande	--	On-Line Podcast	15 minutes			X		First 6 months after taking SW1321	Prerequisite SW1321. Available at http://hydroacoustics.usgs.gov/training/podcasts/wrii.meas.wizard.shtml
Using Extrap to Determine Proper Extrapolation Methods, Part 1 - General Overview	--	On-Line Podcast	20 minutes			X		First 6 months after taking SW1321	Prerequisite SW1321. Available at http://hydroacoustics.usgs.gov/training/podcasts/extrap.intro.shtml
Using Extrap to Determine Proper Extrapolation Methods, Part 2 - Practical Examples	--	On-Line Podcast	20 minutes			X		First 6 months after taking SW1321	Prerequisite SW1321. Available at http://hydroacoustics.usgs.gov/training/podcasts/extrap.examples.shtml
Using ADCPs in Moving Bed Conditions	SW3507	On-Line	~ 4 hours			X		First 6 months after taking SW1321	Prerequisite SW1321
Surface-Water Records Computation (Stage-Discharge)	SW1286	Instructor led	5 days	X				First 2 years	Held at NTC about twice a year, also held regionally. Hands on record working that includes developing ratings using GRSAT.
Surface-Water Records Computation Using the Index-Velocity Method	SW1319	Instructor led	5 days		X			First 2 years (if running index-velocity gages)	Held at NTC annually
Selecting ADVm Measurement Volumes (Podcast)	--	On-Line	20 minutes			X		First 6 months after taking SW1319	Prerequisite SW1319. Available at http://hydroacoustics.usgs.gov/training/podcasts/advm.measurement.volume.podcast.shtml
Programming SonTek ADVms (Podcast)	--	On-Line	20 minutes			X		First 6 months after taking SW1319	Prerequisite SW1319. Available at http://hydroacoustics.usgs.gov/training/podcasts/program.advm.podcast.shtml
Sediment Data-Collection Techniques	SW1091	Instructor led	5 days				X	First 2 years (if actively collecting sediment data)	Held at Cascades Volcano Observatory (CVO) annually
Introduction to Suspended Sediment Sampling	SIR2005-5077	On-Line					X	First 6 months (if assisting with the collection of sediment data)	USGS Scientific-Investigations Report 2005-5077, CD-ROM
Sediment Records Computation and Interpretation	SW2096	Instructor led	5 days				X	First 2 years (if actively computing sediment records)	
Stage-Discharge Relations	SW1182	Instructor led	4 days	X				First 2 years if not taking SW1286	Generally held regionally when requested. Some of the same material is covered in SW1286.
Indirect Measurements of Peak Discharge	SW1163	Instructor led	4 days	X				Between years 2 and 4	Generally held regionally when requested. Recommended prerequisite either SW1524 or SW1004.
Basic Electronics and Troubleshooting Instrumentation	ID1081	Instructor led	5 days				X	Between years 2 and 6	Held at HIF annually
Satellite Data-Collection Platform Installation and Operation	ID1017	Instructor led	4 days				X	After 4+ years	Held at HIF annually
Streamflow Measurements with ADCPs Refresher	SW1756	Instructor led	2 days				X	After 4+ years	Recommended to take ~4 years after SW1321, meant to cover most recent policies, techniques, equipment, and software.
Intermediate Streamflow Measurement using ADCPs	SW2441	Instructor led	5 days				X	After 4+ years	Held throughout nation at WSCs about 1 time a year. Intended for users with ADCP experience, as it is not a substitute for SW1321. Concentrates on measurement review and quality.
Surface-Water Hydraulics -It is highly recommended that all individuals collecting surface-water data take either SW1524 or SW1004 sometime after at least 2 years of data collection and computation. For future career paths that include hydraulic analysis: such as slope-area computations, step-backwater computations, culvert analysis, contracted opening computations, or multi-dimensional analysis, SW2009 A and B are recommended.									
Hydrographer Hydraulics	SW1524	Instructor led	4 days	X				After 2+ years	Applied theory
Basic Hydraulic Principles	SW1004	Instructor led	5 days	X				After 2+ years	Held annually at NTC, lots of theory
Surface-Water Hydraulic Analysis Part I (Open channel flow)	SW2009A	Instructor led	5 days			X	X	After 5+ years	Prerequisite college level hydraulics course, or SW1004. Held at NTC, lots of theory
Surface-Water Hydraulic Analysis Part II (Flows through structures)	SW2009B	Instructor led	5 days			X	X	After 5+ years	Prerequisite college level hydraulics course, or SW1004. Held at NTC, lots of theory