



## Introduction to Survey Sampling

U.S. Census Bureau, Washington, D.C.

This workshop will present the main components of survey sampling, with a focus on probability sampling. Participants will learn some basic probability sampling techniques such as simple random sampling, systematic sampling, stratification, cluster sampling, and multistage sampling. Participants will also learn about producing estimates of population parameters from sample surveys as a function of sample design and weighting procedures. Finally, participants will learn to compute the sampling errors of survey estimates, and to make inferences from them to the population.

The workshop focuses on sample survey methodologies and principles, but participants are encouraged to bring any census or survey questions that are relevant to their job responsibilities. The workshop is conducted in a hands-on and interactive environment. In addition, **all participants must bring a calculator** that includes at least a square root function in order to complete group exercises outside the workshop setting.

### Audience and Prerequisites

This introductory workshop is oriented toward statisticians, demographers, and economists who wish to produce or understand probability sampling procedures such as sample design, statistical estimates, and variance estimators. No previous experience in probability sampling is required although experience using mathematics, statistics, and computer languages is desirable.

Participants should not expect to obtain sufficient background in this workshop to master probability sampling, but they can expect to become familiar with basic techniques well enough to converse with sampling statisticians more easily about sample design and estimation.

**Date:** December 2 - 13, 2019  
**Place:** U.S. Census Bureau Headquarters  
Suitland, Maryland (near Washington, D.C.)  
**Tuition:** US \$3,000

Apply early. The workshop will be limited to 15 participants. Those who complete the application requirements will be accepted on a first-come, first-served basis. For more information e-mail [pop.international.workshops@census.gov](mailto:pop.international.workshops@census.gov).