

# Proficiency Testing

## NVLAP Assessor Training

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**NIST**

National Institute of Standards and Technology  
Technology Administration, U.S. Department of Commerce

**NVLAP**<sup>®</sup>

# Proficiency Testing

- **ISO/IEC Guide 43:1997, Part 1:**  
*Development and Operation of Proficiency Testing Schemes*
- **ISO/IEC Guide 43: 1997, Part 2:**  
*Selection and Use of Proficiency Testing Schemes by Laboratory*

# Proficiency Testing

- **Types of proficiency testing**
  - Use randomly selected specimens from a batch of uniform material
  - Use selected specimens from known properties and results
  - Use artifacts with similar properties that have not been characterized
  - Use one-of-a-kind artifacts

# Proficiency Testing

- **Analysis and reporting**
  - Lab proficiency test results provided to NVLAP
  - Summary of intercomparison results provided to participating labs
  - Identity and performance of individual labs kept confidential.

# Proficiency Testing

- **Nonconformities**

- Failure to participate
- Failure to meet specified performance requirements