

**INSTITUTE OF
ENVIRONMENTAL
SCIENCES AND
TECHNOLOGY**

**Contamination Control Division
Recommended Practice 019.1**

IEST-RP-CC019.1

**Qualifications for Organizations
Engaged in the Testing and
Certification of Cleanrooms and
Clean-Air Devices**

INSTITUTE OF ENVIRONMENTAL SCIENCES AND TECHNOLOGY

1827 Walden Office Square, Suite 400 |
Schaumburg, IL 60173 USA
Phone: (847) 981-0100 • Fax: (847) 981-4130
E-mail: iest@iest.org • Web: www.iest.org



COPYING IS ILLEGAL
Currently in preview, click buy full version

This Recommended Practice is published by the INSTITUTE OF ENVIRONMENTAL SCIENCES AND TECHNOLOGY to advance the technical and engineering sciences. Its use is entirely voluntary, and determination of its applicability and suitability for any particular use is solely the responsibility of the user.

This Recommended Practice was prepared by and is under the jurisdiction of Working Group 01.2 of the IEST Contamination Control Division.

Copyright © 2006 by the **INSTITUTE OF ENVIRONMENTAL SCIENCES AND TECHNOLOGY**

Second printing, July 2017

ISBN 978-0-9747313-5-3

PROPOSAL FOR IMPROVEMENT: The Working Group of the INSTITUTE OF ENVIRONMENTAL SCIENCES AND TECHNOLOGY are continually working on improvements to their Recommended Practices and Reference Documents. Suggestions from those who use these documents are welcome. If you have a suggestion regarding this document, please use the online Proposal for Improvement form found on the IEST website at www.iest.org/proposal/form.html.

INSTITUTE OF ENVIRONMENTAL SCIENCES AND TECHNOLOGY

182 Walden Office Square, Suite 400 | Schaumburg, IL 60173 USA

Phone: (847) 981-0100 • Fax: (847) 981-4130

E-mail: iest@iest.org • Web: www.iest.org

COPYING IS ILLEGAL
Currently in preview, click buy full version

Qualifications for Organizations Engaged in the Testing and Certification of Cleanrooms and Clean-Air Devices

IEST-RP-CC019.1

CONTENTS

SECTION

1	SCOPE AND LIMITATIONS	7
2	REFERENCES	7
3	TERMS AND DEFINITIONS	7
4	BACKGROUND AND PURPOSE	8
5	TESTING AND CERTIFICATION ORGANIZATIONS: QUALIFICATION CRITERIA	8
6	PERSONNEL: LEVELS OF PROFICIENCY	9

APPENDIX

A	BIBLIOGRAPHY	14
---	--------------------	----

COPYING IS ILLEGAL
Currently in preview, click buy full version

Qualifications for Organizations Engaged in the Testing and Certification of Cleanrooms and Clean-Air Devices

IEST-RP-CC019.1

1 SCOPE AND LIMITATIONS

1.1 Scope

This Recommended Practice (RP) defines recommended qualifications for organizations engaged in the testing and certification of cleanrooms, clean-air devices, HEPA- and ULPA-filtered systems, and associated components. In addition, this RP:

- 1) Establishes professional categories for personnel performing testing. Each category consists of recommended minimum requirements for education, training, and experience, all of which should be verified by the testing and certification organization, and
- 2) Establishes levels of competence to be demonstrated by the personnel.

1.2 Limitations

The provisions of this RP are not applicable when additional particular skills, knowledge, and education are required for the testing and certification of specialized equipment. Examples include, but are not limited to, biological safety cabinets per NSF 49 and nuclear air systems per SME 509/510.

2 REFERENCES

See Appendix A, Bibliography, for a listing of documents that contain information essential to the understanding of cleanroom principles.

3 TERMS AND DEFINITIONS

The following terms are defined in reference to their use in the context of this Recommended Practice:

certificate of calibration

A document provided by the calibration company that certifies the test equipment has been calibrated to a known standard.

certification

The culmination of procedures leading to validation, expressed in the form of written evidence (e.g., certificate of compliance) that verification has been accomplished in accordance with specified testing procedures, such as ISO 14644 or IEST-RP-CC006.

certification organization

An organization providing on-site testing and certification services. This may be an outside vendor performing testing for profit or gain, or in-house staff that is part of the company owning the equipment being tested. Throughout this document, certification organization is referred to as “organization.”

certification technician

A person who has demonstrated proficiency sufficient to meet the criteria for qualification by passing a written and operational examination that assesses the ability of the candidate, as acquired through training and experience, to test and certify cleanrooms and clean-air devices (see section 6).