

Technical Cleanliness

Specific Requirements for Performing Analyses According to the NEW STANDARD VDA 19.1



THE NEW VDA 19.1 STANDARD HAS BEEN IN EFFECT SINCE FEBRUARY 2026 — new requirements for contamination analysis and evaluation, including electromobility and new technologies.

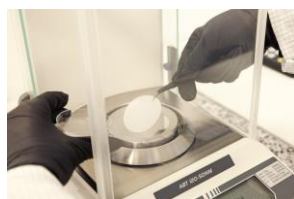
Technical Cleanliness and environmental cleanliness requirements are defined by the ISO 16232, ISO 13485 and ISO 14644 standards, as well as the VDA 19.1 and VDA 19.2 standards. The training familiarizes participants with contamination testing and evaluation according to the new rules of the newly issued VDA 19.1 standard.

VDA Volume 19.1 “Inspection of Technical Cleanliness – Particulate Contamination of Functionally Relevant Automotive Components” provides a detailed overview of the methods and procedures used to characterize the cleanliness status of products within quality processes in the automotive industry, and has been supplemented with a set of new extraction and analysis methods.

The training is designed in close cooperation with the company **Carl Zeiss Slovakia, s. r. o..**



Extraction Procedures



Gravimetry



Laboratory Test

MAIN TOPICS

- Cleanliness specification and strategy
- Selection of the test method
- Handling in accordance with Technical Cleanliness requirements
- Qualification tests and blank value
- Extraction procedures
- Analysis filtration and separation
- Analytical methods
- Documentation
- Practical part: SEM/EDX microscopy

TRAINING BENEFITS

Participants will gain up-to-date knowledge related to the newly issued VDA 19.1 standard, which has been in effect since February 2026.

A key benefit is the expert interpretation of the newly issued VDA 19.1 standard, including the supplementary review process prior to the standard's official publication.

The professional training also includes an explanation of the specifications for Technical Cleanliness testing related to the newly issued VDA 19.1 standard.

The licensed training also includes a practical part focused on **SEM/EDX microscopy**, which has become an integral part of standard analyses under the newly issued VDA 19.1 standard.

During the practical training, participants will also be instructed directly by staff of **Carl Zeiss Slovakia, s. r. o..**



ZEISS SEM/EDX system



ZEISS Axio Zoom – objectives

WHO THE TRAINING IS FOR

Employees responsible for implementing cleanliness in industry, laboratory staff, quality department employees, project managers and management staff involved in implementing and monitoring Technical Cleanliness.

 **The training outcome is a licensed CleanCert® certificate** with international validity in accordance with IAQA and WIPO (IR 018034457_01).

DATES AND VENUES — OPEN COURSE

 The number of seats for each date is limited

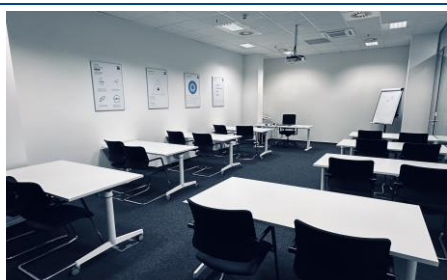
Date	Venue	Duration	Price / person
19.8. – 20.8.2026	Praha	2 days	685,00 €
9.9. – 10.9.2026	Trnava	2 days	685,00 €
30.9. – 1.10.2026	Praha	2 days	685,00 €
7.10. – 8.10.2026	Trnava	2 days	685,00 €
4.11. – 5.11.2026	Praha	2 days	685,00 €
25.11. – 26.11.2026	Trnava	2 days	685,00 €
December – on demand	Praha	2 days	685,00 €
December – on demand	Trnava	2 days	685,00 €

The price excludes VAT and includes the licensed CleanCert® course fee, extensive training materials, and a lecturer experienced in Technical Cleanliness audits. Registration closes 3 days before the course start date.

IN-HOUSE TRAINING FOR COMPANIES

For companies interested in an individual group training session held at their own premises, we offer an In-House training format. Based on your inquiry, we will prepare an individual price quote (date and number of participants by agreement).

OUR TRAINING CENTERS



Training Center Prague



Training Center Trnava

COURSE SUPERVISOR

Ing. Róbert Jánošík, PhD. — Certified Cleanliness Auditor – CAE® (Reg. No.: CCC-2110-A0001)

PAYMENT DETAILS

Contact person for payment notifications (accounting): **Ing. Sylvia Lesňáková**

E-mail: lesnakova@cleanlinessaudit.com

Bank account

Tatra banka, a.s., Spišská Nová Ves

Account number: 2624841595/1100

IBAN: SK30 1100 0000 0026 2484 1595

BIC (SWIFT): TATRSKBX

Registered in the Commercial Register of the District Court Košice I, Section Sro, File No. 20314/V

Cleanliness Certification Center, s.r.o.

Inspection body in the field of Technical Cleanliness · member of the international IAQA association

Levoča, June 2026



www.cleancert.eu