

## Target audience for VDA 19.X training?

Automotive OEMs, suppliers and service provider (such as labs) who has to fulfill technical cleanliness requirements:

- Cleanliness inspector
- Assembly planner
- SQE (Supplier Quality Engineer)
- Process and Product auditor
- Supervisor or manager involved in technical cleanliness

## Other training info

### Supplementary Material:

- VDA 19.1 Inspection of Technical Cleanliness – Inspection of Technical Cleanliness >Particulate Contamination of Functionally Relevant Automotive Components (Former Title: VDA 19)
- VDA 19.2 Technical Cleanliness in Assembly – Environment, Logistics, Personnel and Assembly Equipment

### Duration & Price

VDA 19.1 – Technical Cleanliness - Qualification for "Assistant for Technical Cleanliness" (ID 973)	2 Days	3,900 RMB/person (incl. VAT)
VDA 19.2 – Technical Cleanliness in Assembly – Qualification for "Assistant for Technical Cleanliness" (ID 974)	2 Days	3,900 RMB/person (incl. VAT)

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# VDA 19.X Technical Cleanliness

English version



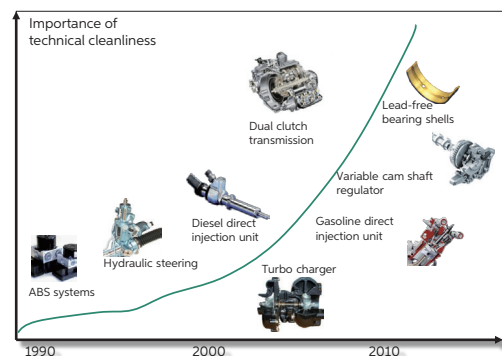
DRIVE WITH US INTO YOUR FUTURE!

# VDA 19.X

## Technical Cleanliness

### Why VDA 19.X is so important?

In modern automotive industry, new materials and technology are introduced, the customers' requirements are increased, so the inspection of technical cleanliness and technical cleanliness in assembly is increasingly important. There are many influencing factors and processes can cause contamination or re-contamination of parts and assembly process. For example, piston was burned and engine was blocked due to particles in engine lubrication system. The identification and assessment of the parts and these factors, the selection of preventive and corrective actions become more and more challenging. The VDA Volume 19.X provide the standard and guideline of technical cleanliness for OEM and suppliers in automotive industry.



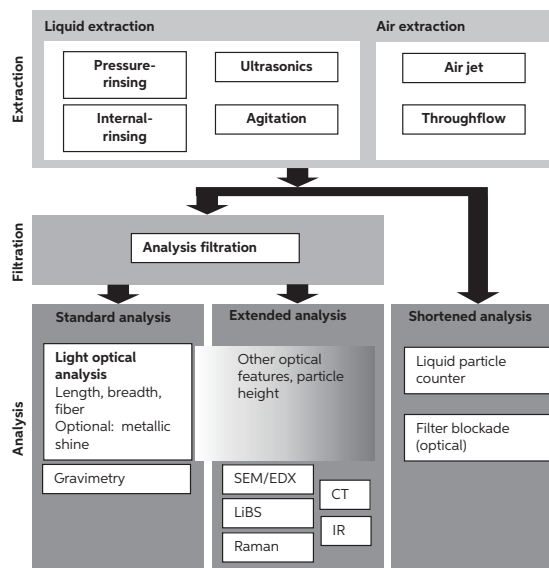
### What is VDA 19.X and its training concept?

The VDA volume 19.1 "Inspection of Technical Cleanliness – Particulate Contamination of Functionally Relevant Automotive Components" is the first comprehensive standard publication to deal with the approach and procedures to characterize cleanliness of products in the automotive quality chain. The 1<sup>st</sup> version was first officially introduced by the VDA QMC in January 2005 and the 2<sup>nd</sup> version is now available since 2015.

The training course is divided into **2 main parts**: "Theoretical Basis" & "Practical Part" and participant will learn:

- Background and quality factors of technical cleanliness in automotive industry
- Cleanliness analysis process according to VDA 19.1 (see picture below)

#### VDA 19.1



- How to operate technical cleanliness equipment
- How to choose and use technical cleanliness tools and equipment
- Operation skills for technical cleanliness
- Required reports and records

The VDA Volume 19.2 "Technical Cleanliness in Assembly – Environment, Logistics, Personnel and Assembly Equipment", introduced by VDA QMC in 2010, is the first comprehensive guideline to structured planning of a cleanliness-compliant assembly line and its supporting processes and areas.

The training course is divided into **2 main parts**: "Theoretical Basis" & "Practical Part" and participant will learn:

- Background and quality factors of technical cleanliness in automotive industry
- Basic definitions and how to choose cleanliness grades (CG) (see picture below)

#### VDA 19.2

- **Operational**  
Reduces particle entry via containers, consumables, staff, etc.
- **Psychological**  
Reduces particle displacement from staff to components
- **Physical**  
Reduces entry of **macro** particles via ambient air (> 5µm)
- **Technical**  
Reduces quantity of airborne fluff and **micro** particles (< 5 µm)



- Design environment, human, Logistics and equipment according to VDA 19.2
- Measure the technical cleanliness factors
- Option to improve the technical cleanliness in PDCA