

ENGE SOLUTIONS

◆ Experts in Technical Cleanliness ◆

Technical Cleanliness in Assembly **TRAINING**

BASED ON VDA19.2

PRODUCTION ENVIRONMENT MAPPING

OVER 100 TRAINING SESSIONS CONDUCTED

TECHNICAL CLEANLINESS IN ASSEMBLY TRAINING

COURSE

Quality Management in the Automotive Industry, Technical cleanliness in assembly.

Published in 2010, the VDA19.2 standard is primarily intended to support companies and production lines in adapting their processes for contamination and particle control. Its objective is to ensure that parts and components are able to meet cleanliness specifications, including the control of metallic particles, non-metallic particles, and fibers.

Main Focus Areas:

- Environment;
- Logistics;
- Personnel;
- Assembly Equipment.

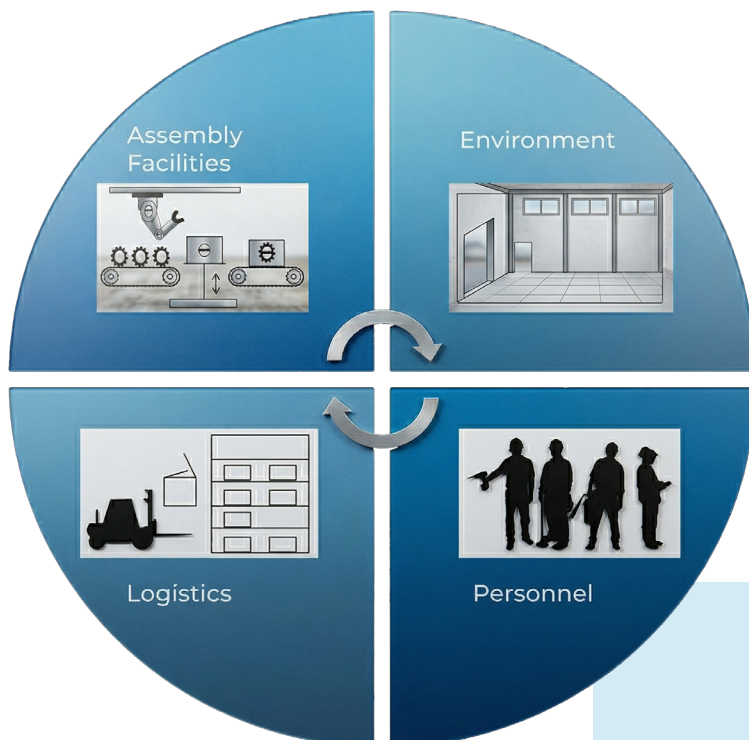
New technologies require cleaner systems. Electrical systems, batteries, and sensors do not tolerate metallic particles. For this reason, production and assembly line planners must pay close attention to the VDA19.2:2010 guideline.



Damage Caused by a Particle

INTERNAL AUDITOR TRAINING

Become a subject-matter expert!



INSTRUCTOR QUALIFICATION

Engineer Fernando Dias was certified by Gläser GmbH in Germany and by the Fraunhofer IPA Institute (Stuttgart, Germany) as an Inspector and Specialist in Technical Cleanliness. He is an authorized trainer for Technical Cleanliness training, based on the VDA19.1:2026, ISO16232:2018, and VDA19.2:2010 standards, with over 15 years of experience in the field of Technical Cleanliness.

All departments are involved in this study and adaptation process, with a focus on implementing individual improvements to ensure that, at the end of the process, the contamination level complies with the standard required by the customer.



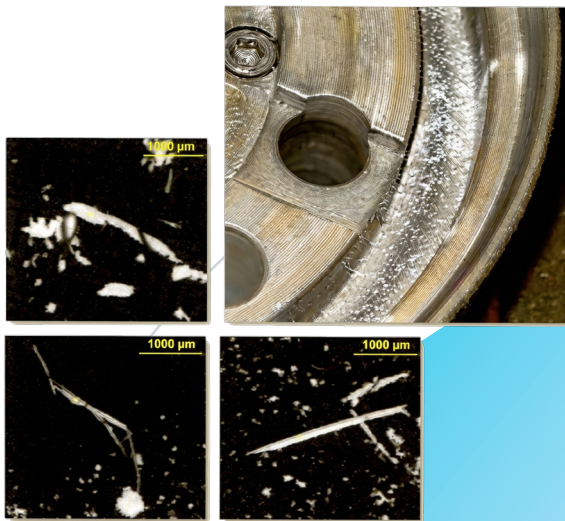
Assembly line

DETERMINING THE INFLUENCE OF TECHNICAL CLEANLINESS

VDA19.2:2010

The VDA19.2:2010 standard describes a wide range of test procedures for determining the cleanliness of environments, surfaces, fluids, and assembly processes. The procedures can be used to:

- Identify and quantify particle sources in order to derive improvement measures and validate their effectiveness.
- Identify weak points in a plant or operation, with the objective of defining optimization potential to be incorporated into the planning of a new facility.
- Monitor processes or areas over a longer period of time.



Particles from a screw fastening process

Training for
Assembly Line Planners

Planner

The procedures are not intended, nor are they necessarily suitable, for determining and verifying cleanliness limit values for environments, processes, and surfaces.

Course certificate issued.



Training materials included.



Particle Extraction Laboratory with Cleanroom – Enge Solutions

How to maintain a standardized analysis?

How can we ensure components are clean enough?

How can we deliver reliable results?

The solution is simple: professional qualification in the VDA19.1 standard for component cleanliness inspection and the VDA19.2 standard for the further processing of cleaned individual components.

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