

CONTACT:

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**O RING
PRÜFLABOR
RICHTER**

THE O-RING PRÜFLABOR RICHTER:

The O-Ring Prüflabor Richter specializes in services designed to ensure a safe use of elastomer seals and technical moldings and has been accredited according to DIN EN ISO/IEC 17025 since 2002. In addition to numerous services, we also offer the performance of failure analyses, which we have carried out on more than 2000 cases to date.

Our gained experience is shared in seminars, in-house seminars and consultations. Since the laboratory was founded in 1996, more than 2000 companies have already taken advantage of these services.

INSTRUCTOR DIPL-ING. TIMO RICHTER:

After studying mechanical engineering at the KIT Karlsruhe, Mr. Timo Richter spent several years working for a worldwide manufacturer of technical elastomer products. His responsibilities included coordinating the cooperation of central process development, materials development and tool construction with several domestic and foreign production sites. The last two years he was responsible for the reliable implementation of customer requirements as a product manager in the life science sector. Since January 2018, Mr. Richter has been working as a consultant in the O-Ring-Prüflabor Richter.



IN-HOUSE SEMINARS:

We also offer individual designed seminars in English according to the needs of our customers. For more information feel free to contact us at info@o-ring-prueflabor.de.

Seminar

QUALITY OF ELASTOMER PRODUCTS FROM THE MIXTURE TO THE FINISHED PART



ABOUT THIS SEMINAR

This seminar provides a well-founded overview of the complete production chain of technical elastomer parts. Special attention is given to the component quality, meaning the process steps that are particularly critical for the quality of the end product are specifically identified. Reasons for the particular complexity of elastomer processing as well as the handling of this complexity by processing companies will be dealt with as well as the main causes for the comparatively high qualitative fluctuations, which most of the elastomer products are subjected to.

REGISTRATION AND LOCATION:

Please contact us for further information. We offer seminars at our facility and at customer's preferred locations.

Email: info@o-ring-prueflabor.de

DAY 1 – PROGRAM

08:30 AM INTRODUCTION

08:45 AM MATERIAL FRAMEWORK CONDITIONS OF ELASTOMER PROCESSING

- Structure of elastomers
- Common polymers and their properties
- The most important elastomer test methods

10:15 AM THE PRODUCTION OF COMPOUNDS

- Ingredients of a rubber composition
- The rolling mill
- The blending plant
- Disturbances in the production of compounds
- Control of the mixing process
- Quality of rubber compounds

11:45 AM MOLDING AND VULCANIZATION - PART 1

- Vulcanization process
- Extrusion
- Calendering
- Pressing process, functionality, variations & important parameters

12:30 AM LUNCH BREAK

01:30 PM MOLDING AND VULCANIZATION - PART 2

- Injection molding process, functionality, variations & important parameters
- Production of composite parts (rubber-metal & rubber-fabric)
- Quality in the molding process
- Tool design, tool coating and tool cleaning

02:15 PM POST-PROCESSING AND FINAL INSPECTION

- Manual and automatic deburring processes
- Tempering
- Washing and drying
- Manual final inspection
- Control automats, possibilities and limitations

03:00 PM MANUFACTURING DEFECTS AND THEIR CAUSES

03:30 PM AUDITING OF AN ELASTOMER COMPANY

- Structure of an elastomeric company
- Typical Goods Receipt Inspections
- Question Catalog Auditing

04:15 PM FINAL DISCUSSION