

Concept of Measures for Asbestos in Building Reconstruction

ISSA, Frankfurt am Main on June 16th, 2021

Agenda

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- 2 Building Reconstruction
- 3 Activities for Finding Solutions
- 4 Implementation in the Regulations
- 5 Concept of Measures
- 6 Manifestation of TRGS519
- 7 New Concept for Qualification
- 8 Mutual Exchange

Asbestos – Still a Challenge



- Approximately 3.600 annual cases of asbestos-related occupational diseases
- Approximately 1500 annual asbestos-related deaths
- Asbestos-related diseases make up for more than 60% of all deaths as a result of occupational diseases

Even after 28 years of the asbestos prohibition in Germany, there are still a high number of asbestos-related diseases and deaths!

Asbestos – Building Reconstruction

- The existence of asbestos in certain building products was not known to many persons involved in construction for a long time.
- The risks involved in construction measures in older buildings are often not realized.



**Hazard for users,
employees, and environment**

Asbestos – Building Reconstruction

Approximately 750.000 craftsmen and workers are employed in finishing trades and can come in contact with asbestos during their work activities.

Quelle: Statistisches Bundesamt 2019



Requirements need to be determined for working safely in “building reconstruction”.

Activities for Finding Solutions

- National Asbestos Dialogue
- Advisory board for the amendment of Hazardous Substances Ordinance with the asbestos working group



Cornerstones of future asbestos regulations

- Information and notification requirements for the initiator of activities
- Risk-based regulations for protective measures
- Task- and risk-based requirements for qualification



Implementation in the Regulations

- Hazardous Substances Ordinance
 - TRGS 910 - Concept of measures
 - TRGS 519 – Specification of the concept of measures for activities involving asbestos
 - Risk-based package of measures
 - Concepts for qualification

Current legal framework

- Prohibitions in accordance with restrictions for production, circulation and use, pursuant Annex XVII of the REACH-Regulation
- EU-Asbestos Directive

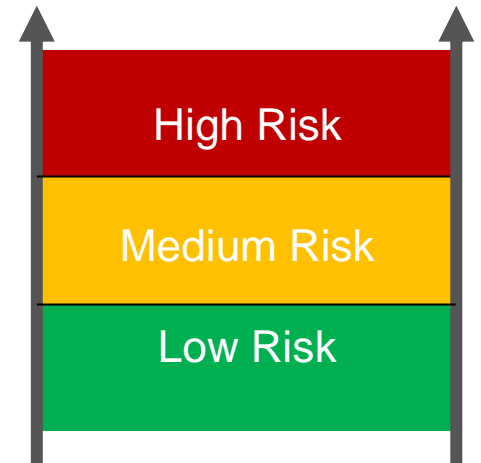
Risk Assessment

In the context of risk assessment, the employer must

- take into consideration the exploration results made available by the initiator of activities and check them for plausibility,
- determine whether the involved activities are permitted,
- determine whether the activities might cause a release of asbestos fibres,
- evaluate whether the involved activities are in the area of low, medium, or high risk,
- develop a work plan.

Concept of Measures

- Work procedures which prevent or minimize the release of asbestos
 - Development of further low-emission work procedures!!!
- Technical measures – aim: observance of acceptance concentration
- Risk-related – complementary organizational and personal protective measures
- Task- and risk-related qualification



Task-specific description of required measures!!!

TRGS 519 Annex 9 Exposure-Risk-Matrix

- Assistance for risk assessment and for determination of protective measures for activities with asbestos-containing „PSF“ (“plasters, putties and tile adhesives“)

Exposure-Risk-Matrix

Activity	Work Procedure	Risk-Allocation	Protective Measures	Qualification

TRGS 519 – Exposure-Risk-Matrix

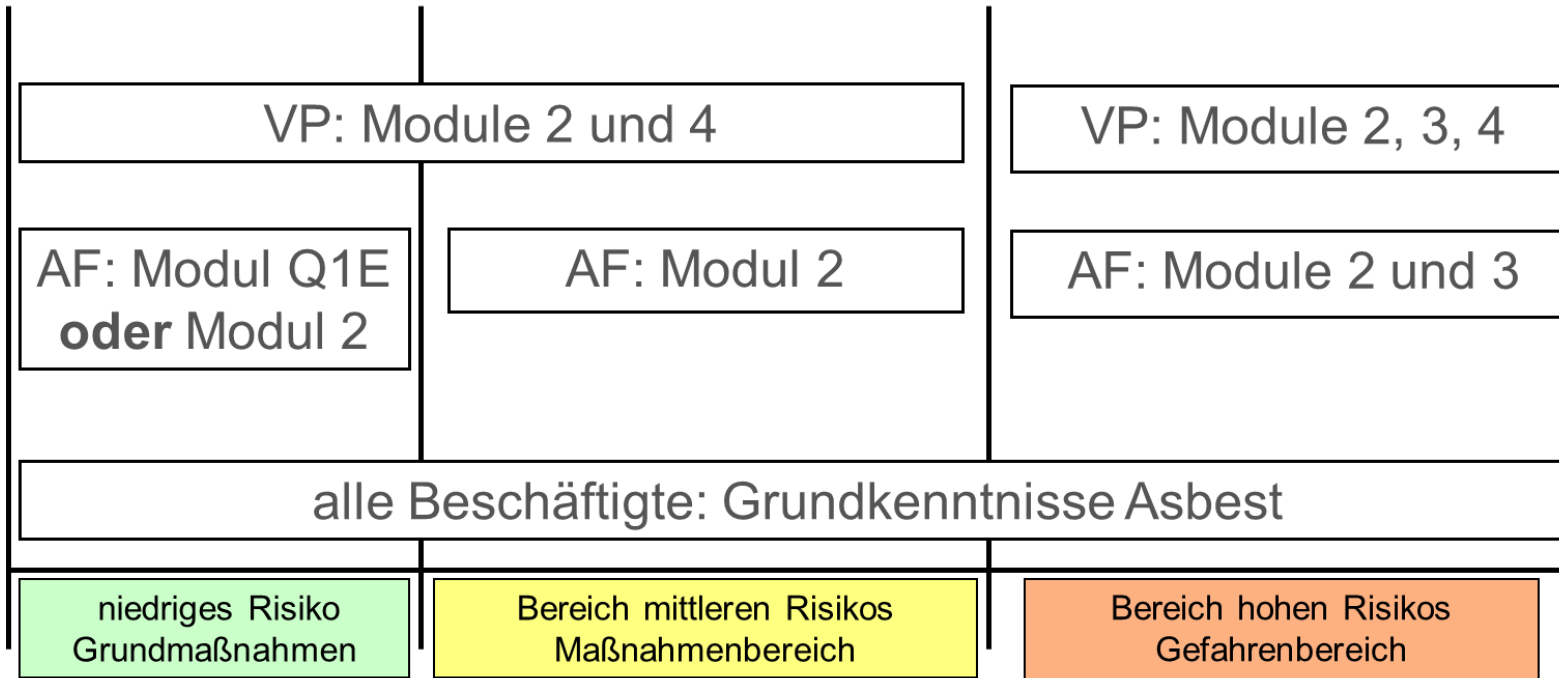
Activity		Work Procedure	Risk Allocation	Protective Measures		Qualification
2a	Aufbringen neuer Bodenbeläge auf vollflächig intakten und asbestfreien Bodenbelägen mit darunterliegenden asbesthaltigen Spachtelmassen / Fliesenklebern	alle Tätigkeiten / Verfahren ohne Bearbeitung des asbesthaltigen Untergrunds	keine Tätigkeit mit Asbest, daher keine Anforderungen nach TRGS 519	□	□	□
3a	Einschlagen und Ziehen von Nägeln in / aus Oberflächen mit asbesthaltigen PSF	manuell	niedriges Risiko □	□	□	□
4a	Setzen von Bohrlöchern in Bauteile mit PSF	BT-30: „Bohren von Bohrlöchern in Wände und Decken mit asbesthaltiger Bekleidung“ Bohrdurchmesser max. 12 mm	niedriges Risiko ↑ □	□	siehe BT-30	VP-Q1 AF-Q1E
		Vorbereitung der Fläche mit BT-31 „Stanzverfahren“ oder BT-32 „Stemmverfahren“ → anschließend Bohren in asbestfreien Untergrund	niedriges Risiko □	□	siehe BT-31 bzw. BT-32	VP-Q1 AF-Q1E
5a	Kernbohrungen in mineralischen Untergrund mit PSF kleine Durchmesser z.B. für Schwerlastdübel, Armierungsanschlüsse, Bauteiltrocknung	Vorbereitung der Fläche mit BT-32 „Stemmverfahren“ → anschließend Bohren in asbestfreiem Untergrund	niedriges Risiko ↑ □	□	siehe BT-32	↑ VP-Q1 AF-Q1E

To be continued for all activities involving asbestos !!!

Modular Qualification

Akzeptanzkonzentration
10.000 F/m³

Toleranzkonzentration
100.000 F/m³



Significance of Qualification

Protection from asbestos through minimizing exposure can only succeed if:

- a. All parties involved in the construction have knowledge about asbestos,
- b. usage and application of the correct protective measures is guaranteed, as well as
- c. all parties realize and implement their responsibilities.

Thank you for your attention!

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