

Global Training Standard – 20 Years AUKOM e.V.

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In March 2022, the AUKOM e.V. association celebrated its 20th anniversary in Berlin together with numerous guests. Offering up-to-date, comparable and manufacturer-neutral training in production measurement technology is the association's goal and at the same time its concept for success. More than 45,000 completed qualifications are a guarantee of success.

AUKOM is the training standard in production metrology, worldwide. **QZ** met Prof. Dr. Ulrich Lunze (Chairman of the Board AUKOM e.V.) and Ekkehard Jesser (Marketing AUKOM e.V.) at Control in Stuttgart in May and talked to them about the significance of the anniversary and the promotional focus at Control 2022.



From left: Prof. Dr. Ulrich Lunze (Chairman of the Board AUKOM e.V.) and Ekkehard Jesser (Marketing AUKOM e.V.) at Control in Stuttgart © Hanser

Successful anniversary event with welcoming speech by Prof. Robert Schmitt

Ekkehart Jesser reported on the successful anniversary conference – Prof. Robert Schmitt from RWTH Aachen University gave the welcoming address at the evening event. Schmitt emphasised the high status that AUKOM enjoys today in measurement technology and the value of a good, well-founded education. In his opinion, it is impossible to imagine technology without people.

In addition to all digitalisation and automation processes as well as the use of AI, they must develop and contribute their full potential. In Schmitt's opinion, measurement technology will make an increasingly important contribution to sustainable coexistence in the future.

Impulse lecture by Ralf Juhre on the "human factor"

The impulse lecture by Ralf Juhre initiated intensive discussions. Juhre highlighted the importance of people, who are often the ultimately decisive factor for every successful project. "Technicians and engineers often have a technocratic view of the world: they want to count, measure and calculate. But you cannot calculate people, you have to get involved in the relationship for projects to succeed," he emphasised. He praised AUKOM e.V. for its holistic view of measurement technology. At the subsequent AUKOM conference, various lectures offered insight into practice with AUKOM – including speakers from FESTO, Fraunhofer IWS or ZEISS Austria.

The long-standing Chairman of the Board, Dr Franz Wäldele, was honoured for his achievements. Thanks to his communicative skills, companies that normally act as competitors could be united in a common interest – precisely the creation of a training standard in production measurement technology. The association benefits from his experience and his dedicated commitment to university work.

From project to AUKOM e.V. – a 20-year success story

The training concept Coordinate Metrology (in German: AUKOM) was developed within the framework of a three-year research project (1998-2001) of the FQS (Forschungsgemeinschaft Qualität e.V. of the DGQ) together with an industry committee accompanying the project at the Chair of Quality Management and Production Metrology (QFM) of the University of Erlangen-Nuremberg. It has been funded by the Federal Ministry of Economics and Labour (now the Federal Ministry of Economics and Technology BMWI). The project participants and other interested parties joined together at the end of the term to form the association "Ausbildung Koordinatenmesstechnik e.V." (AUKOM).

Manufacturer-neutral training

The association's goal is "a demand-oriented, up-to-date, comparable, verifiable and provable training in production measurement technology". It is offered on the global market in 17 languages and 28 countries. At the same time, the training concept is "manufacturer-neutral – with interfaces to manufacturer-specific instrument training." A remarkable concept that presupposes fair cooperation between the major manufacturers and global players in the coordinate measuring machine market. Then as now, this cooperation works very well, as AUKOM Chairman Prof. Dr.-Ing. Ulrich Lunze confirms. "The common goals promote cooperation. Currently, this means the comprehensive establishment of the AUKOM metrologist training standard and the setting of training standards in the area of Form & Position for all those who want to profitably use GPS and ASME tools."

AUKOM Metrologist

There are many different ways to measure a diameter on a workpiece with a coordinate measuring machine alone. None of them is fundamentally wrong. Through the well-founded, globally standardised AUKOM training, measurement technicians acquire the necessary measurement strategy competence to ensure the comparability of the individual measurement results.

In addition, AUKOM Metrologists are proficient in the necessary metrological terminology. This allows them to clearly and correctly communicate internally as well as across departments and companies how the measurement result was generated. In this way, they are able to identify possible measurement deviations more quickly or avoid them in advance. In this way, certified AUKOM Metrologists make a significant contribution to the reduction of error costs in the company and protect companies from possible complaints.

Use GPS and ASME tools profitably

GPS seminars are booming. Design engineers, developers and measurement technicians are trained. But unfortunately often separately from each other. The designer receives training specifically for designers, the measurement technician receives training suitable for measurement technicians. AUKOM Form & Position is the training format that connects. Because more than ever, well-functioning, inter-departmental cooperation is important. If the design department implements standard specifications in its drawings without consulting metrology and production, the tools of the GPS standards cannot be used profitably. They do not have a beneficial effect, but cause the need for explanations, loss of time and therefore costs, if they are not understood. Another plus: AUKOM Form & Position skilfully integrates both the ISO and the ASME world in one seminar, worldwide understanding is ensured.

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