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BETONQUALI – A DIGITAL QUALIFICATION PLATFORM FOR THE CONCRETE INDUSTRY

H. Krueger ⁽¹⁾, **O. Assbrock** ⁽²⁾

(1) Ready-Mixed Concrete Research Association (FTB), 10969 Berlin, DE

(2) German Ready-Mixed Concrete Association (BTB), 10969 Berlin, DE

Abstract

In order to counter the skilled workers shortcoming and to increase occupation in the concrete industry, a new type of qualification, "BetonQuali", is being developed. Since 2016, BetonQuali is part of the "Digital media in vocational education" program of the German Federal Ministry of Education and Research (BMBF) as well as the European Social Fund (ESF), and is analogously funded. For the implementation of the tasks, the technical development, the didactic concept and for preparation of the learning content, a consortium of 6 different association partners was established.

The focus is on semiskilled and unskilled employees who, through the acquisition of partial qualifications, are accompanied on work-oriented and process-oriented pathways to the professional qualification as "process technician of the stone and earth industry" in the areas of "ready mixed concrete" and "prefabricated concrete products". The professional competence is achieved by linking digital learning with traditional attendance events and by personal support in the whole process. In order to make the technical content more attractive, new learning modules are being developed, on the basis of an already existing knowledge and qualification platform of the cement and concrete industry, aligned to the needs of the employees. Focusing on a company work processes as well as on the training system, partial qualifications (TQ) may be achieved:

- TQ 1: Concrete production
- TQ 2: Concrete testing
- TQ 3: Plant management and control
- TQ 4: Maintenance
- TQ 5: Commercial organization and sales

The time required to achieve each partial qualification depends on the individual previous experience of each participant. Through a competence assessment procedure specifically developed for the project, participants' current skills are visualized to be the basis for individual learning paths.

Keywords: digital learning, information and qualification platform, partial qualifications, occupationally, practice-oriented, concrete industry.