



BETONQUALI – DIGITAL QUALIFICATION PLATFORM FOR THE CONCRETE INDUSTRY

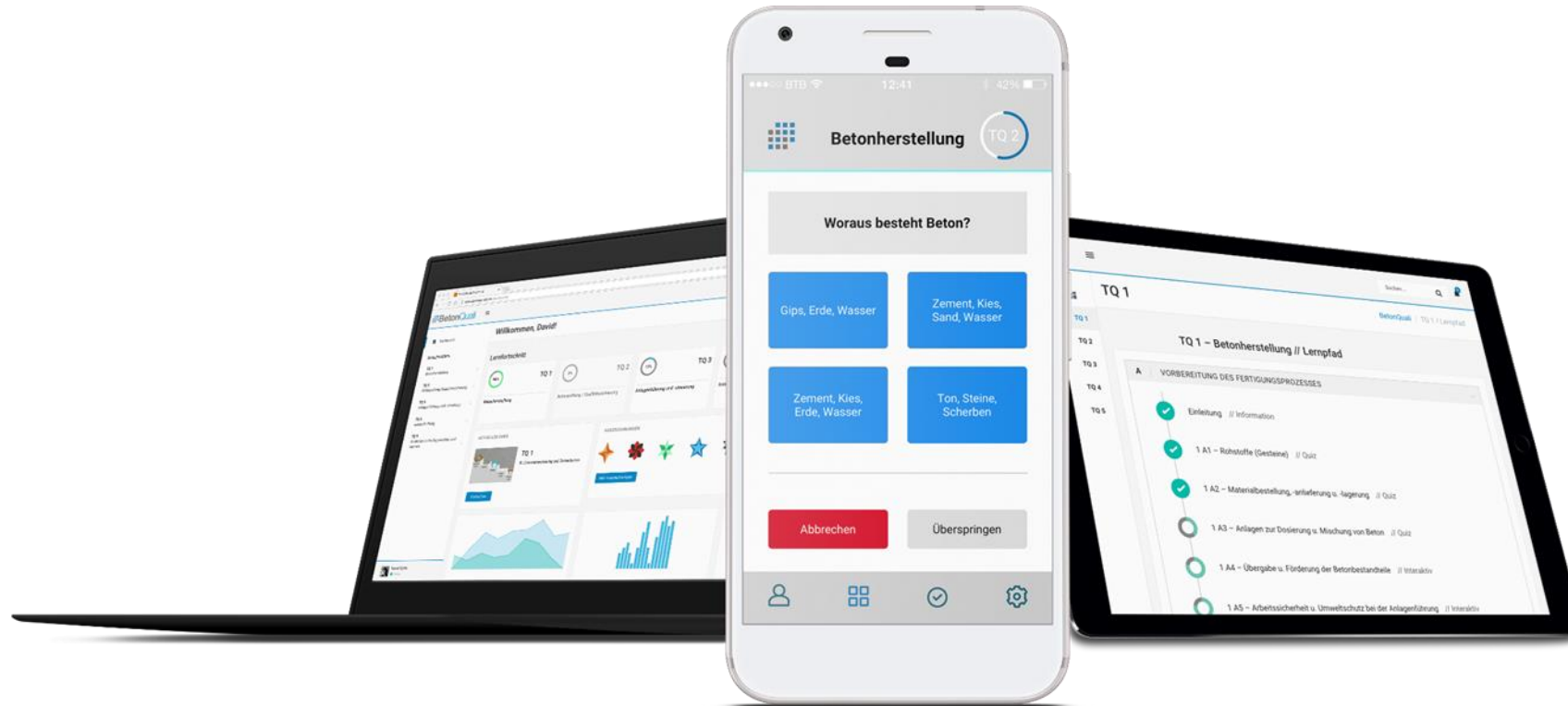
HANNES KRÜGER



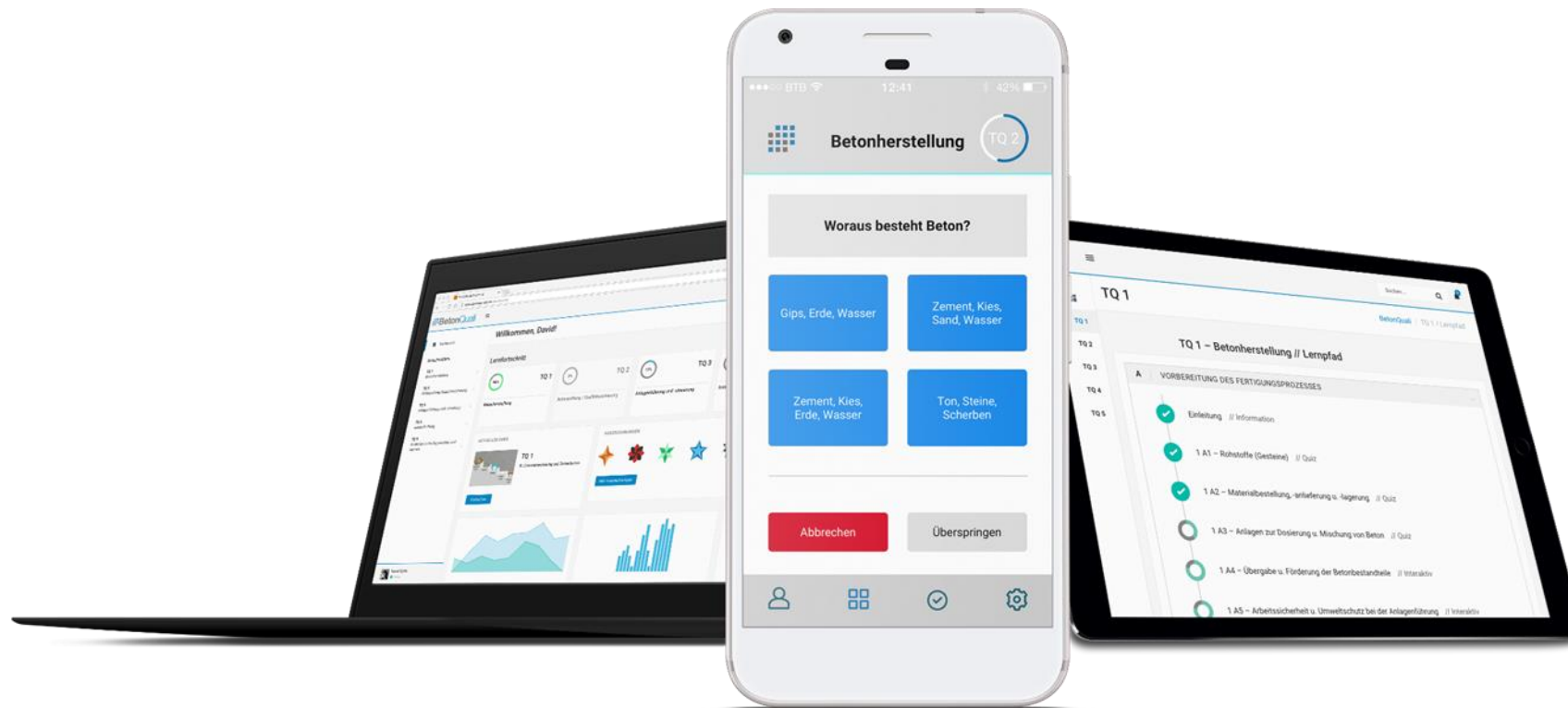
BETONQUALI – DIGITAL QUALIFICATION PLATFORM FOR THE CONCRETE INDUSTRY

HANNES KRÜGER

BetonQuali



BetonQuali



Federal Ministry
of Education
and Research



European
Union

*Designing.
The Future.
Together.*

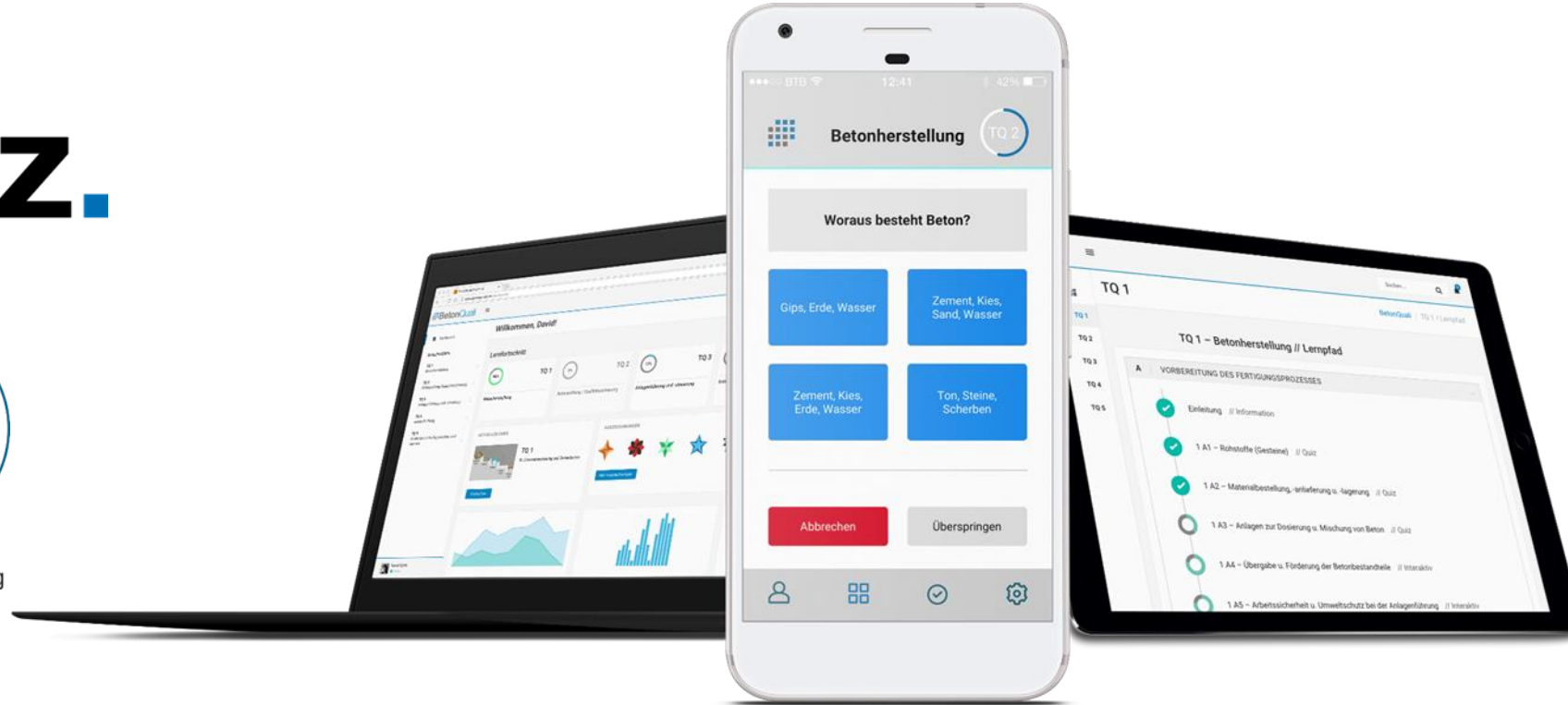




BetonQuali



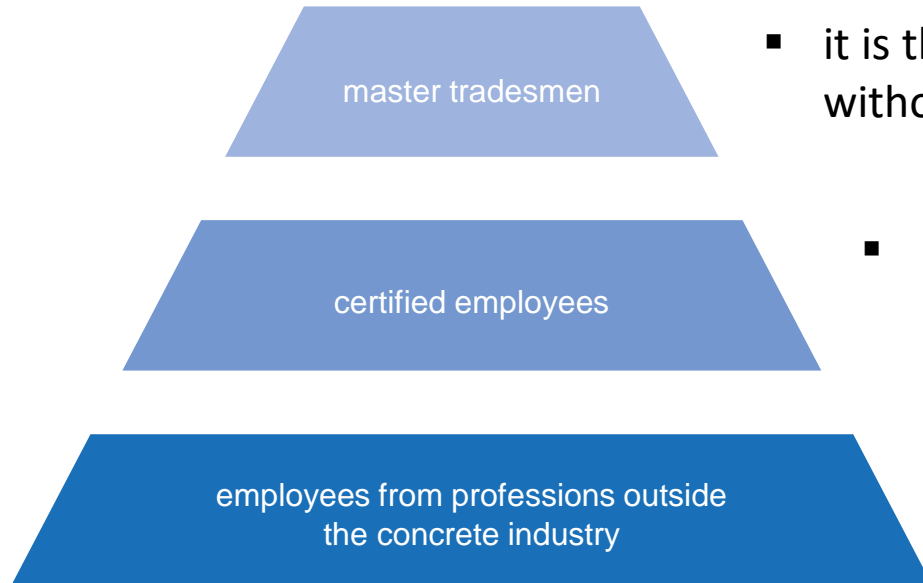
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Designing.
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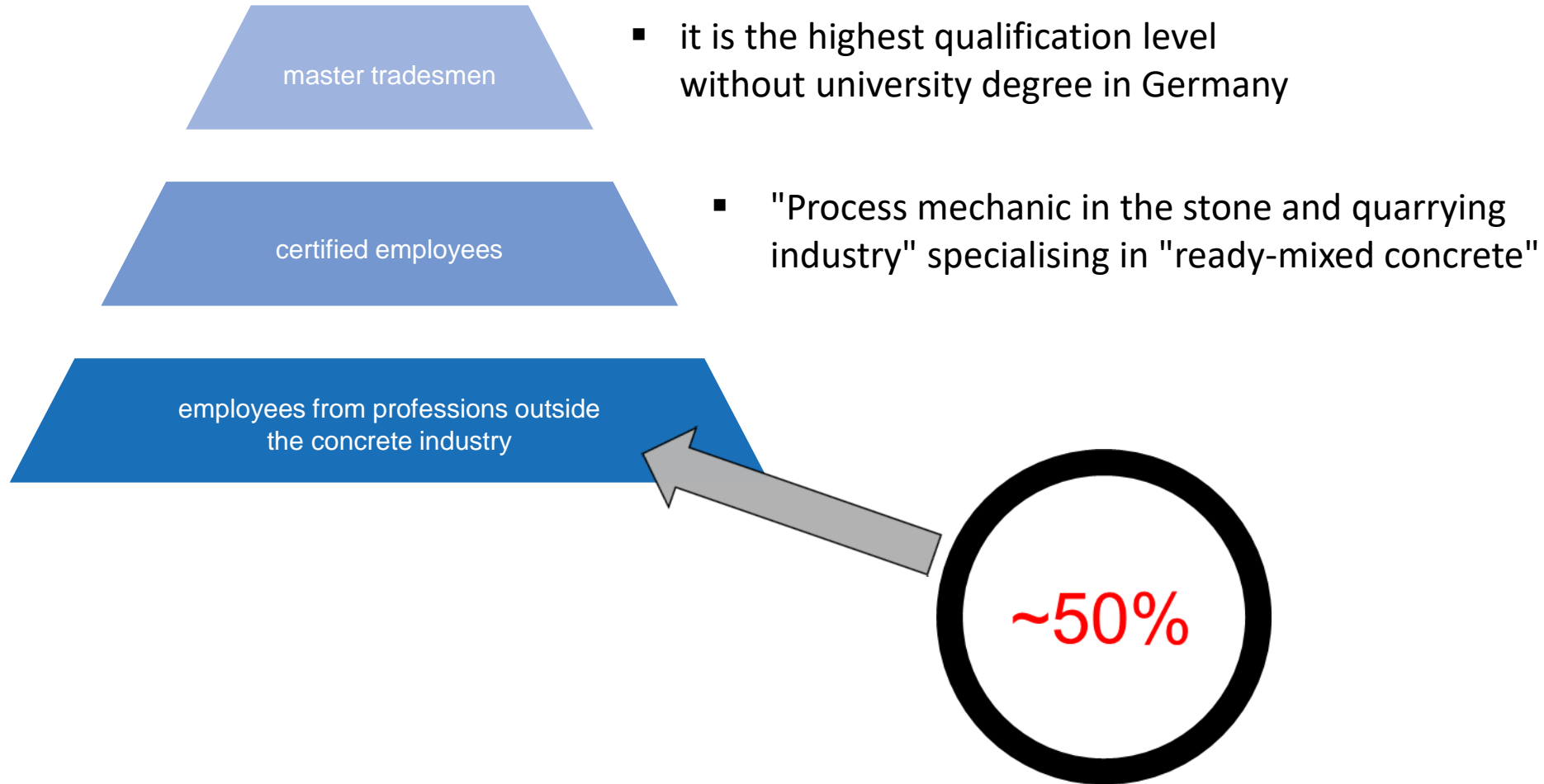


Education in the Concrete Industry

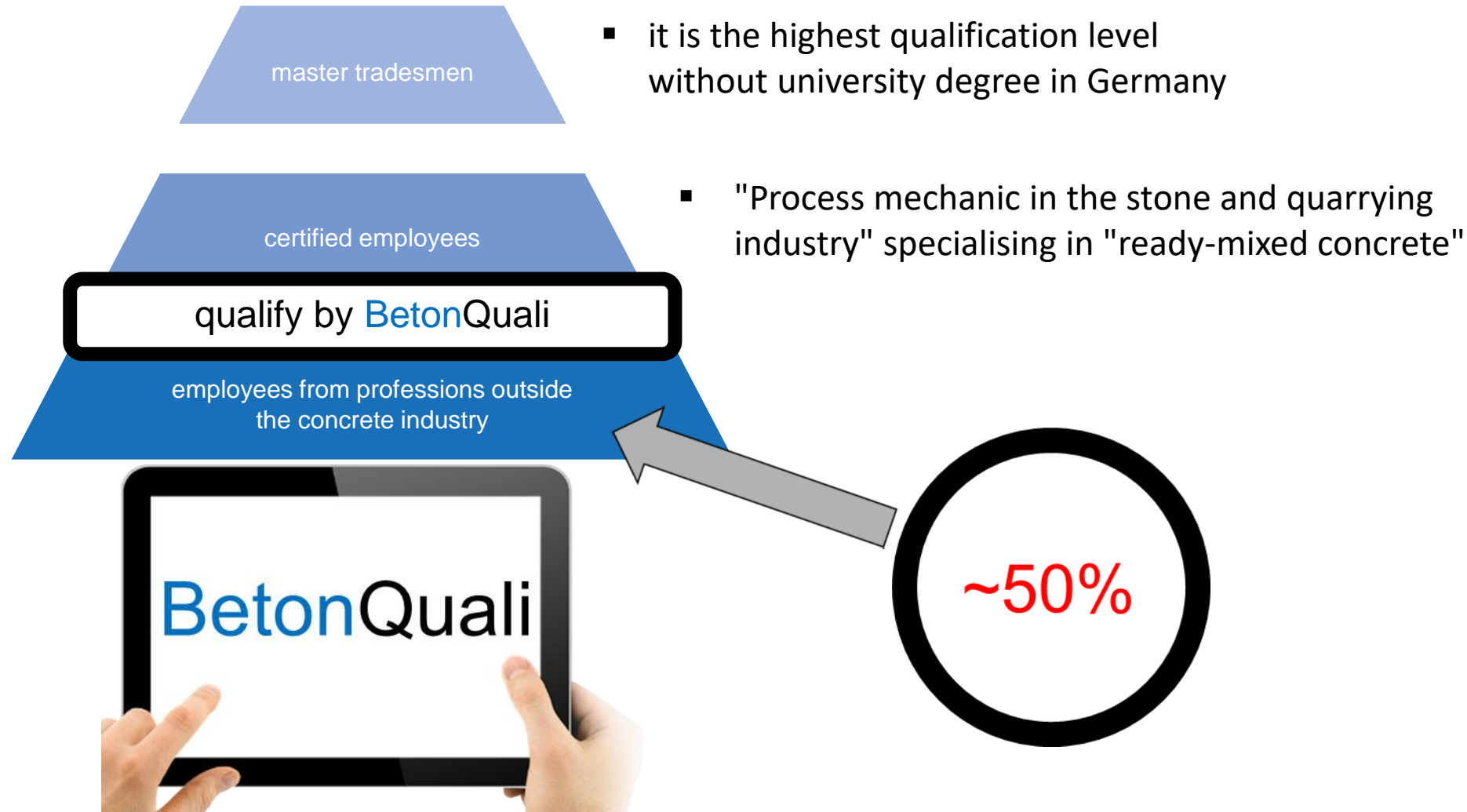


- it is the highest qualification level without university degree in Germany
- "Process mechanic in the stone and quarrying industry" specialising in "ready-mixed concrete"

Education in the Concrete Industry



Education in the Concrete Industry



■ Fundamental Requirements



■ Accurate Fit

BetonQuali opens up training paths based on individual experience with the help of skill assessments and the resulting learning paths tailored to the needs of participants.



■ Anywhere

The use of digital media supports self-organized and flexible learning without local constraints. Whether using a smartphone, tablet, or computer, participants can decide for themselves when, where, and how they want to acquire knowledge.



■ Integrated

The learning and work processes of employees are interlinked. This optimizes and, thus, minimizes the required attendance time.



■ Overseen

Individual counselling and supervision of participants by means of learning-process support in the companies.

■ Concept

- The didactic concept developed for the research project comprises a combination of:
 - traditional learning,
 - classroom events,
 - print media,
 - the integration of digital learning media,
 - and the operational work processes.



Fig.: Types of Knowledge Transfer

■ Concept

- It is a five part-qualification (PQ).
- The contents are based on the operational work processes and the "Process mechanic in the stone and quarrying industry" training regulations and have been developed in consulting with business and educational experts.
- The acquisition of the entire qualification is intended to take up to 24 months.
- After a student has completed all five parts they will have all they need to go to the German Certification Body and pass the official exam to become a "process mechanic".

PQ 1
Concrete Production

PQ 2
Concrete Testing

PQ 3
Plant Management and Control

PQ 4
Maintenance

PQ 5
Commercial Organization and Sales

Dashboard

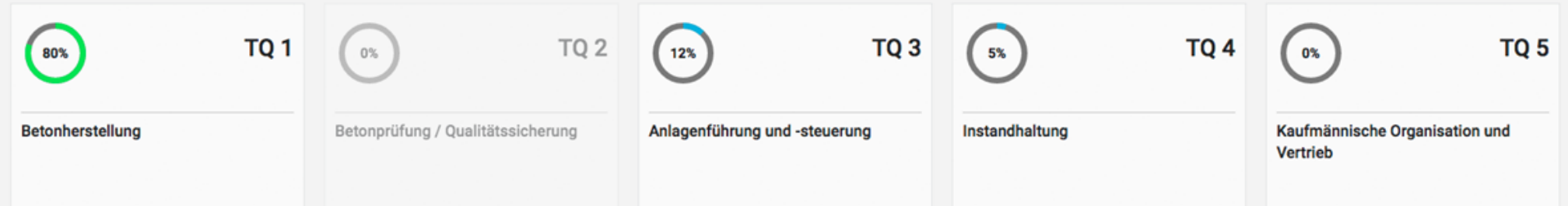
QUALIFIZIEREN

- TQ 1
Betonherstellung
- TQ 2
Betonprüfung/Qualitätssicherung
- TQ 3
Anlagenführung und -steuerung
- TQ 4
Instandhaltung
- TQ 5
Kaufmännische Organisation und Vertrieb

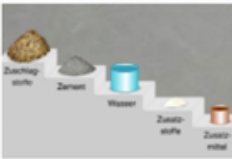
Willkommen, David!

BetonQuali / Dashboard

Lernfortschritt




AKTUELLER KURS



TQ 1
B | Zementherstellung und Zementarten

[Fortsetzen](#)

AUSZEICHNUNGEN



[Alle Auszeichnungen](#)

David Spörl
Online



BetonQuali www.betonquali.de Suchen ...

BetonQuali

Dashboard

QUALIFIZIEREN

- TQ 1**
Betonherstellung
 - Lernpfad
 - Freies Lernen
 - Material
- TQ 2
Betonprüfung/Qualitätssicherung
- TQ 3
Anlagenführung und -steuerung
- TQ 4
Instandhaltung
- TQ 5
Kaufmännische Organisation und Vertrieb

TQ 1

BetonQuali / TQ 1 / Lernpfad

TQ 1 – Betonherstellung // Lernpfad

A | VORBEREITUNG DES FERTIGUNGSPROZESSES >

B | PLANUNG DER ARBEITSSCHRITTE ZUR BETONHERSTELLUNG ▾

- ✓ Einleitung
- ✓ 1 B1 – Zementherstellung und Zementarten
- ✓ 1 B2 – Gesteinskörnung
- 1 B3 – Zugabewasser
- 1 B4 – Betonzusatzstoffe
- 1 B5 – Betonzusatzmittel
- 1 B6 – Bewehrung
- 1 B7 – Fasern

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Online

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Dashboard

QUALIFIZIEREN

- TQ 1 Betonherstellung ▼
 - Lernpfad
 - Freies Lernen
 - Material
- TQ 2 Betonprüfung/Qualitätssicherung >
- TQ 3 Anlagenführung und -steuerung >
- TQ 4 Instandhaltung >
- TQ 5 Kaufmännische Organisation und Vertrieb >


TQ 1

BetonQuali / TQ 1 / Lernpfad / B

TQ 1 – Betonherstellung // Lernpfad

B // Planung der Arbeit // Schritte zur Betonherstellung // Einleitung

Erklärvideo: Herstellung von Zement

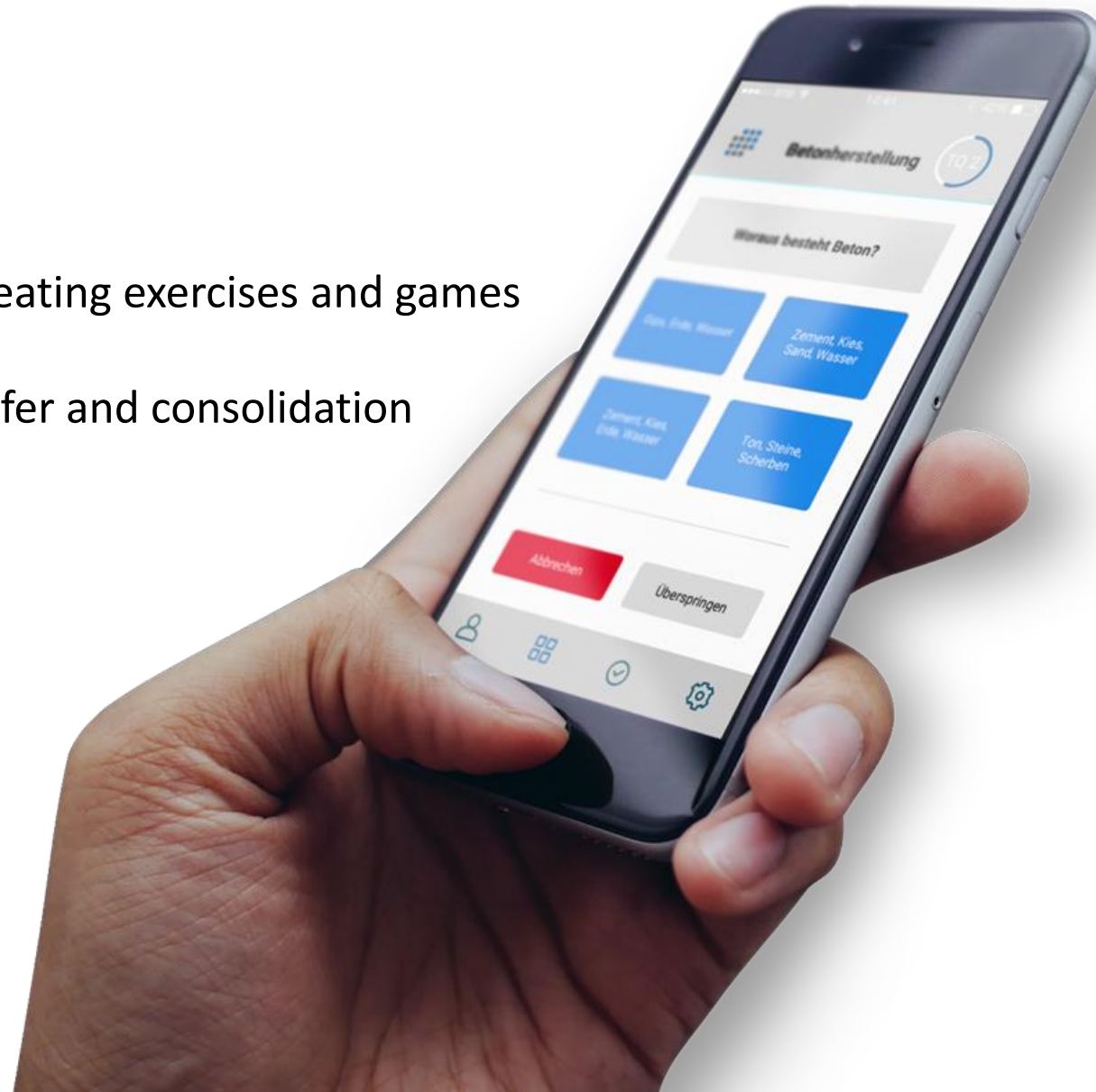


Die Herstellung von Zement ist ein aufwändiger und energieintensiver Prozess. Dabei hat sich die Industrie in den vergangenen Jahrzehnten mehr und mehr zu einer High-Tech-Branche entwickelt. Die Rohstoffe für Zement werden im Steinbruch gewonnen. Dort wird das Material entweder durch Sprengungen oder mit schweren Maschinen gelockert und anschließend mit Rad-Schaufelladern und Schwerlastkraftwagen zur Brecheranlage transportiert und dort zu Schotter zerkleinert.

David Spörl Online

- **Gamification**

- **Multiple Choice**
- Self-control: repeating exercises and games
- Knowledge transfer and consolidation through play



■ Conclusion

- The concrete industry has a high proportion of employees from non-industry-related professions.
- There is a need for further training that cannot be met by continuing education and training courses.
- This is where "BetonQuali – the digital qualification platform for the concrete industry" comes in – its fundamental aim is being to meet the four following requirements:
 - Accurate fit
 - Anywhere
 - Integration
 - Overseen





**THANK YOU
FOR YOUR ATTENTION!**

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