



Advantage through BIM Competence

Standardized BIM Education
with the buildingSMART Professional
Certification Program

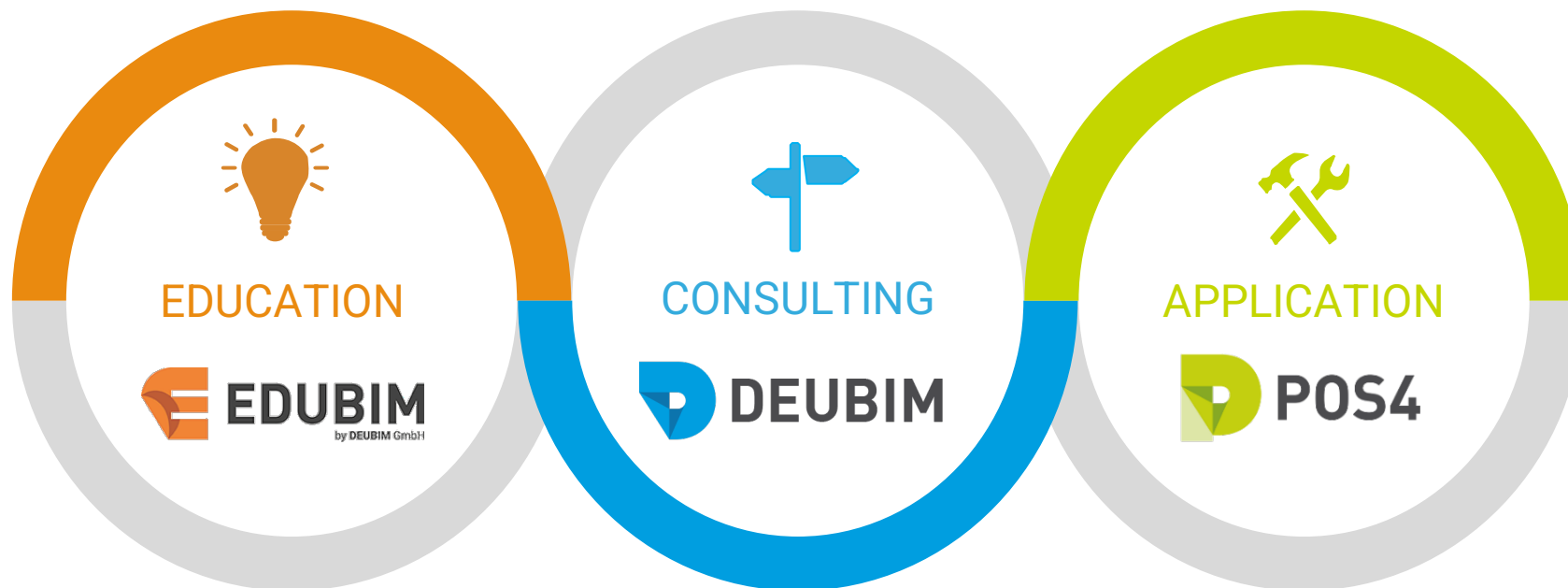


M.Sc. Sarah Kristina Merz

- 2009** B.A. Architecture, FH Aachen
- 2009** Urban Development, KMUST, Kunming, China
- 2011** Life Cycle Financial Management, Stanford University, USA
- 2013** M.Sc. Management [Construction Real Estate Infrastructure], Bauhaus University Weimar, Germany
- 2014** Product Manager, DIN | Beuth Verlag GmbH
- 2016** Head of Academy, DEUBIM GmbH
- 2016** Committee member VDI 2552-8 „BIM Qualifications“
- 2016** Member buildingSMART Germany „BIM Certification“
- 2016** German representative & Co-Head buildingSMART International „Professional Certification Program“
- 2019** Head buildingSMART International Subcommittee „Professional Certification Practitioner“
- 2020** Head WG buildingSMART Germany „BIM Certification“
- 2022** Co-Head DIN NA 005-13-05 AA “Fachkompetenz”

WHO WE ARE

Our Company Group



AGENDA

Advantage through BIM Competence



DEMAND
CERTIFICATION NEEDED

SOLUTION
GLOBALLY RECOGNIZED CERTIFICATE

DEMAND

Sustainability requires Empowerment



Education

Empowerment to actively, responsibly and autonomously shape the future in a globalized and digitalized world

Education beyond School



„The development of certification schemes for persons, in response to the ever increasing velocity of technological innovation and growing specialization of personnel, can compensate for variations in education and training and thus facilitate the global job market.”

(ISO 17024:2012-11)

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What can go wrong...



Necessity of BIM competence

Dijitalleştirme ve kolaylaştırma

İnşaat ve gayrimenkul sektörünü, tabi bütün yönetim kademeleri dahil olmak üzere, Open-BIM ve standart uygulama konusunda destekleyeceğiz.

[Bundesbau] Federal inşaat sektörü dijitalleştirmede bir rol modeldir. Aynı zamanda inşaat, konut ve iklimdeki siyasi amaçlarımız için büyük önemi vardır.

(cf. p.20, Koalitionsvertrag SPD, DIE GRÜNEN, FDP 2021)

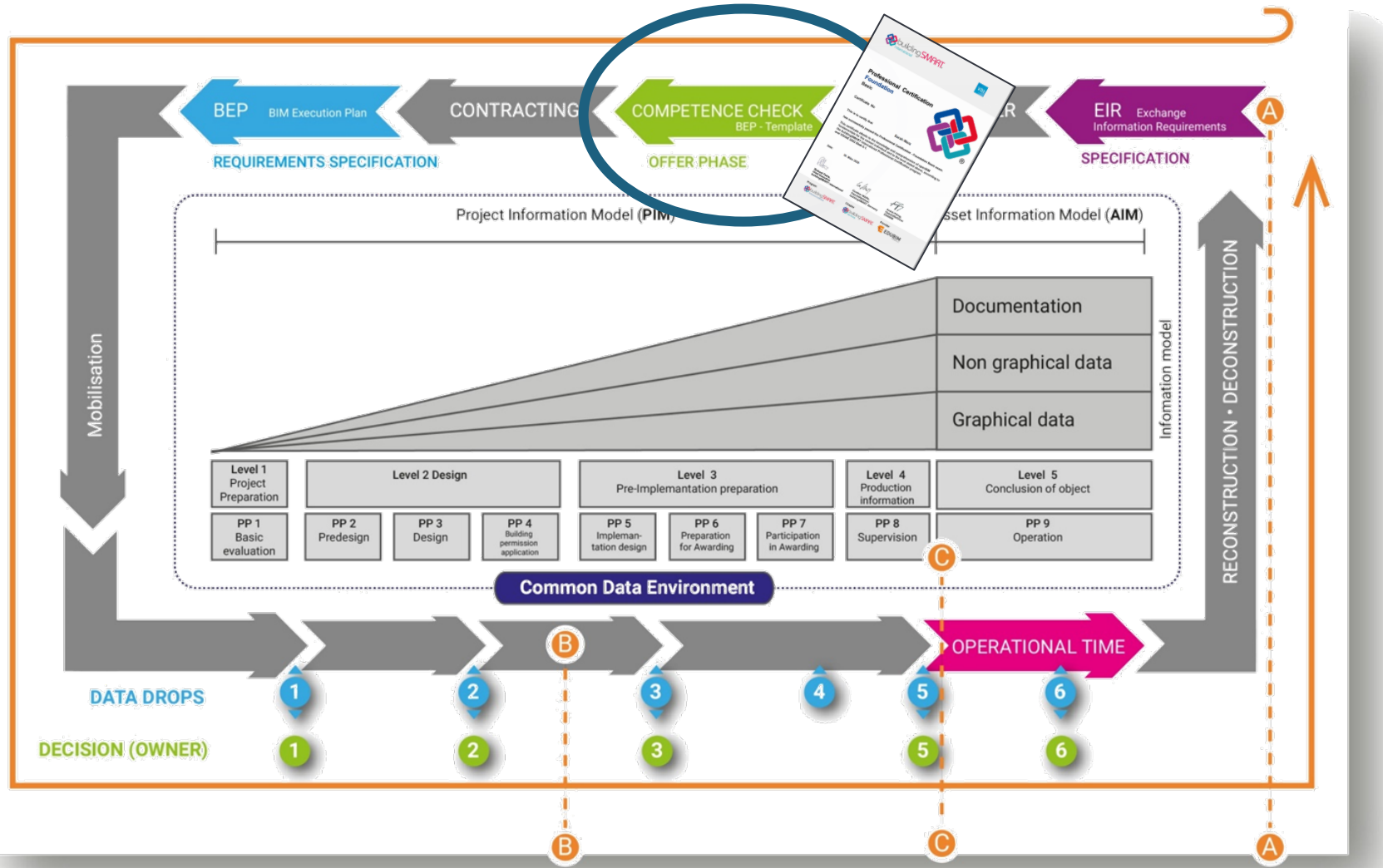
Mandatory BIM Use for Public Projects

- Norway
- Austria
- Sweden
- Finland
- Denmark
- UK
- Netherlands
- France
- Germany
- Italy
- tbc

<https://t1p.de/mandatory-bim>

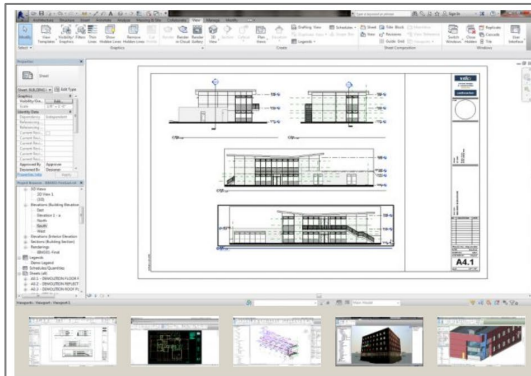
Proof of Competence in Process

INFORMATION DELIVERY CYCLE



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Certification Jungle



\$485.00
336 Clock Hours / 12 Months / \$4,850 USD and
SAVE \$1,250 or 10 payments of \$485

Payment Plan *
Choose an Option...

ENROLLMENT PROCESS *

- ☐ I confirm that I have reviewed the Enrollment Agreement and that I understand the Enrollment Process described in the ENROLL tab (below).

PREREQUISITES *

- ☐ I confirm that I meet the course prerequisites listed below.

BIM CERTIFICATION

BIM CERTIFICATION FOR INDIVIDUALS

Do you want to prove you're BIM competent?



BIM Academy and White Frog (UK) have developed an assessment for individuals that seek certification which will give employers and customers the confidence that your services are going deliver what they need and expect.

The BIM Professional annual certification provides you the opportunity to meet - and continue to meet - the appropriate BIM methodology. It helps you to provide the highest level of service to your clients.

Individual certification demonstrates that skills learnt during the BIM 4 Professionals course you have undertaken and maintained, while also understanding the principals of the National BIM Guide published by the BIM Institute website. BIM delegates, who undertook training and pass the online assessment, will receive a certificate of accreditation showing the delegate has an in-depth understanding of Building Information Modelling (BIM) principals.

Авторизованный центр Академии BIM предлагает всем желающим сдать экзамен и подтвердить свои профессиональные навыки работы в продуктах

ДАТА ПРОВЕДЕНИЯ: по запросу

+ ЗАПИСАТЬСЯ

СТОИМОСТЬ:

Экзамен уровень Professional - 8 000 руб.

Экзамен с возможностью пересдачи - 9 000 руб.

Экзамен с пересдачей и с практической подготовкой - 12 000 руб.

BIM Certification for Individuals

Do you want to prove you're BIM competent?

has developed a scheme for individuals that offers two pathways to certification which will give employers and customers the confidence that your services are going deliver what they need and expect.



These certification routes provide on-going, third-party assessment through a combination of audit and CPD requirements. Certification provides you the opportunity to meet - and continue to meet - the appropriate standards. It helps you to provide the highest level of service to your clients.

Individual certification demonstrates that skills learnt during the training courses you have undertaken are maintained. Scheme members will undertake training, pass an examination and must successfully complete an audit to show compliance with the scheme requirements.

Scheme members will have completed BIM Stage 1 (BIM Fundamentals, classroom or BIM Essentials, online) and Stage 2 (Project/Task Information Manager classroom or BIM: Information management, online) examinations or equivalent.

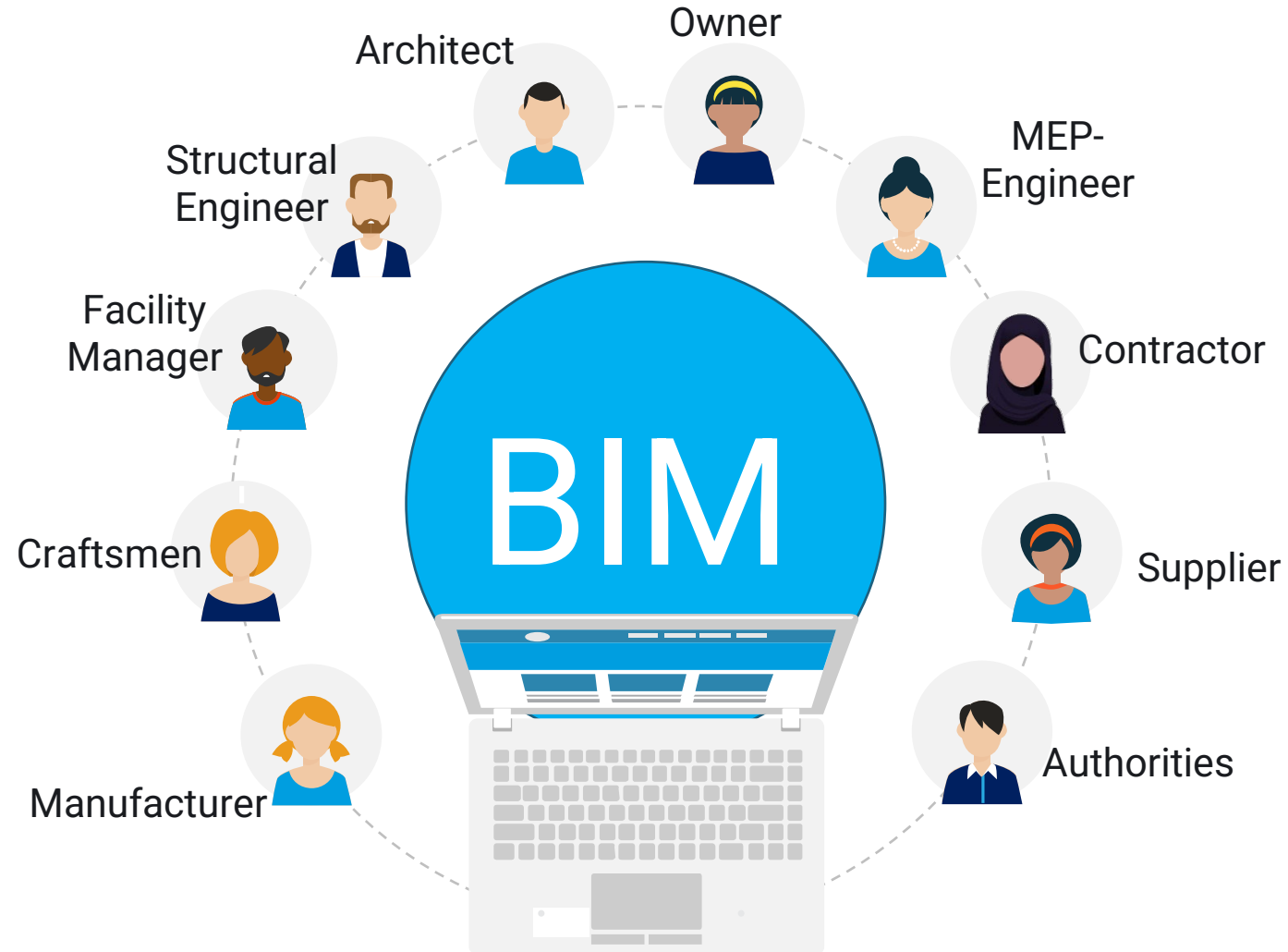
Scheme membership includes BIM Membership and its associated benefits.

The pathways to individual certification are as follows:

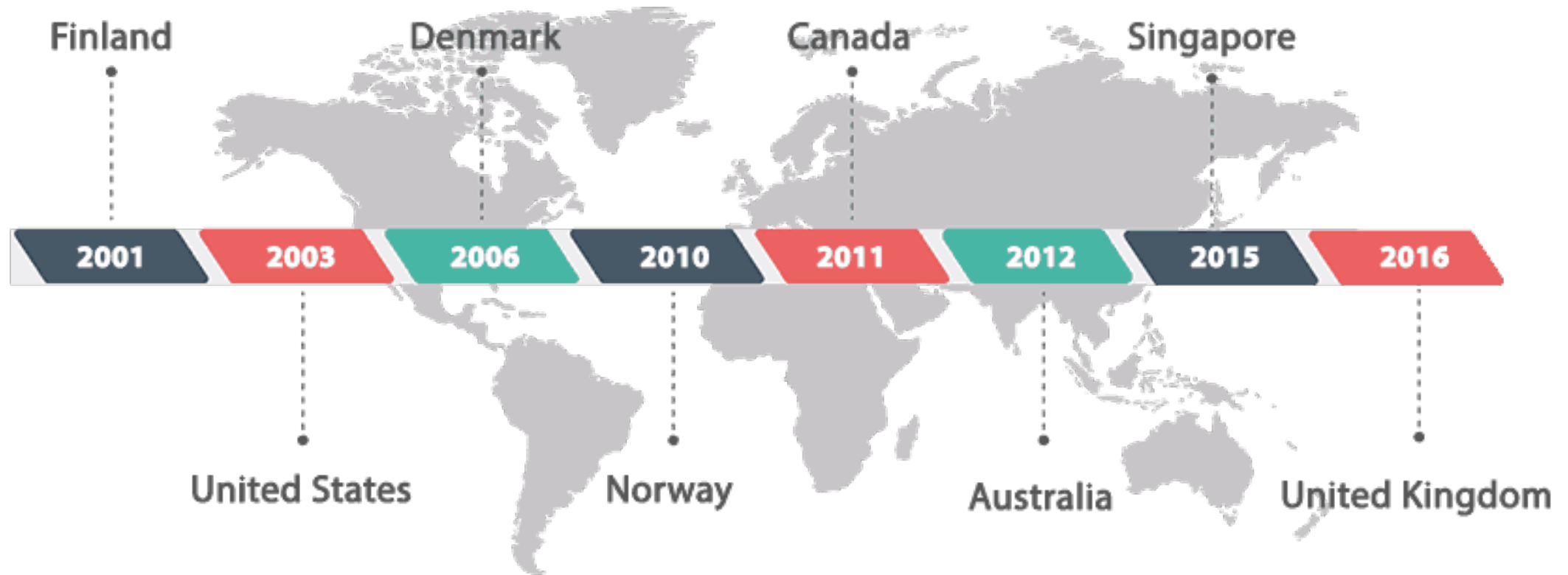


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Language Lesson required



Are national solutions sufficient?



Professional Certification Program



- Certification Program of buildingSMART International
- Development and coordination by international committee



Professional Certification Committee

The program is being developed and coordinated by the buildingSMART Professional Certification Committee. This is a team of specialists representing eight buildingSMART chapters; Switzerland, Norway, German Speaking, Canada, UKI, Spain, Korea and Japan.



Yoshinobu Adachi
buildingSMART Japan



Mark Baldwin
buildingSMART Switzerland



Elif Hjelseth
buildingSMART Norway



Linda Newton
buildingSMART Canada



Antonio Tort Peréz
buildingSMART Spain



Sarah Merz
buildingSMART Germany



Daniel Rossiter
buildingSMART UK & Ireland



Woonjae Lee
buildingSMART Korea

Why Professional Certification?

- ✓ Verifiable **qualified BIM professionals** with comparable competence level
- ✓ **Global benchmark** for content of teaching and certification standards
- ✓ **Consistent understanding of BIM** (terminology and processes)

➤ Developed by...	buildingSMART International
➤ Provided by...	buildingSMART chapters
➤ Conducted by...	Training organizations

FOR...

individuals throughout the entire value chain of design, construction and operation in the construction and real estate industry!

Learning Outcomes



BASIC - Learning Outcome Framework Overview

1) Understand what BIM is, why it is needed, and recognise its specific terminology.

- 1-1) Define the drivers that have led to BIM;
- 1-2) Define BIM;
- 1-3) Identify & Define key BIM terminology;
- 1-4) Define BIM maturity levels;
- 1-5) Define what constitutes an Information Model.

2) Recognise the advantages of BIM, compared to traditional project delivery.

- 2-1) Know why collaborative and new ways of working are required;
- 2-2) Identify the effects of poor information management on projects;
- 2-3) Identify the standards developed to mitigate poor information;
- 2-4) Identify the benefits of BIM to construction professionals;
- 2-5) Identify the benefits of BIM adoption to clients, and facility management.

3) Understand the project information development cycle (and its key terms); specifically how project information is specified, produced, exchanged, and maintained.

- 3-1) Know why employers need to clearly define their requirements (EIR);
- 3-2) Understand the content and value of a BIM Execution Plan (BEP);
- 3-3) Know why consistent exchanges of information is required;
- 3-4) Identify the key elements and benefits of using a collaborative exchange platform (CDE);
- 3-5) Know why clearly defined information management roles are required;
- 3-6) Know why assessing potential supply chain members before appointment is required.

4) Recognise the need for open and interoperable solutions

- 4-1) Define who buildingSMART are;
- 4-2) Define openBIM and its benefits compared to using proprietary products and systems;
- 4-3) Know what IFC is, and its benefits;
- 4-4) Know what MVDs are, and their benefits;
- 4-5) Know what IDMs are, and their benefits;
- 4-6) Know what the bSDD is, and its benefits;
- 4-7) Know what is BCF and its benefits.

5) Identify an organisations capability in working with BIM

- 5-1) Understand the potential benefits for a company in adopting BIM;
- 5-2) Understand the factors that define an organisation's level of BIM Maturity;
- 5-3) Know why BIM adoption needs to align to Organizational goals;
- 5-4) Identify the benefits and challenges to BIM adoption;
- 5-5) Know what the data security implications are for adopting BIM.

01/03/2017bSI-LQF-00P01.01. DRAFT

1) Understand the definition, key terminologies and benefits of Building Information Modeling.

2) Recognize the advantages of BIM compared to traditional project delivery.

3) Understand the project information development management, with BIM, according to the ISO 19650 series.

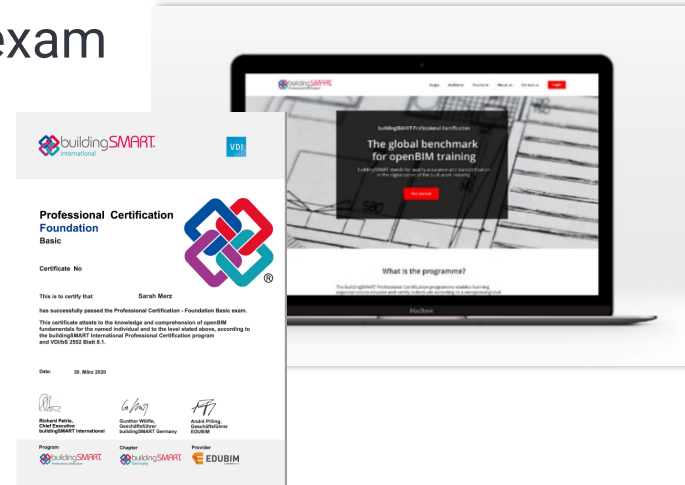
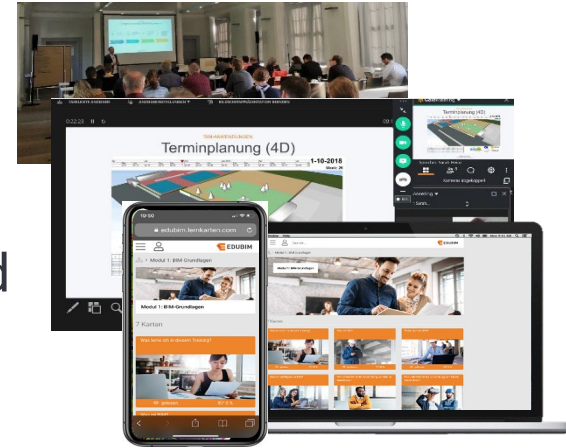
4) Recognize the need for open and interoperable solutions.

5) Understand the terms and measures of BIM capability within an organization.

SOLUTION

Certification Process

- Seminar conducted by buildingSMART-approved training providers
- Course content (min. 16 learning units) according to "buildingSMART International Professional Certification Learning Outcome Framework"
- Concluding with online exam



Status Quo

- First **program start**: May 2018
- **Approval** of first training providers: October 2018
- **Certification** of first individuals: December 2018

- **Next steps:** **PRACTITIONER**

Phase 2

Practitioner
Applied Learning

Phase 1

Foundation
Knowledge-Based Learning

SOLUTION

Global Acceptance



- **18 Chapters** committed to PCert Foundation
- Over **10.000** certified individuals

THANK YOU

Questions and Comments

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Teşekkür
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