Certificate
BIM Professional

Munich, July 28th, 2020

Hereby we confirm the successful completion of

Ms. Carlotta Birelli

in the further training program

Building Information Modelling Professional (BIM/TUM).

The program was developed by the TUM School of Management in cooperation with the Leonhard Obermeyer Center, the Ruhr-Universität Bochum and the HOCHTIEF ViCon GmbH.

The examination comprised of a theoretical online certificate assessment according to VDI/ buildingSMART 2552-8.1 as well as a practice orientated presentation.
The overall grade of 1.3 was achieved.

The following content was covered in the ten-day seminar:

- **Digital planning, building and operation of construction**
- **National and international BIM development**
- **The life cycle of BIM according to the planning phases**
- **BIM implementation**
- **BIM models – geometry and semantic**
- **BIM data standards**
- **Model consolidation and inspection**
- **Code compliance checking**
- **Cooperative management of project data**
- **Purchaser-Information-Requirements**
- **BIM processing planning**
- **LEAN construction**
- **BIM Issue-Management**
- **Model structure and instructions**
- **BIM tools**
- **Coordination of BIM planning**
- **4D – model-based construction planning**
- **5D – model-based calculation**
- **Model-based construction site management**
- **Acquisition of model data in the operating phase**
- **BIM from the perspective of builders and proprietors**
- **Model-based management of buildings**
- **Existing buildings in BIM**
- **Visualisation with BIM**
- **BIM to fabrication**
- **Legal aspects of BIM-Management**
- **BIM contract composition**
- **Change Management**

Prof. Dr. Christoph Kaserer
Academic Director Customized and Open Programs
Technische Universität München

Prof. Dr.-Ing. Frank Petzold
Leonhard Obermeyer Center
Technische Universität München

TUM Institute for LifeLong Learning
Technische Universität München

Confirmation of Participation

We hereby certify that

Munich, December 2024

Carlotta Birelli

has successfully completed the Certificate Program

BIM Professional Practitioner

The program was developed by the TUM Institute for LifeLong Learning in cooperation with the Leonhard Obermeyer Center, the Ruhr University Bochum and the HOCHTIEF ViCon GmbH.

The following content was covered in the scope of this 2-day program:

- BIM roles and their area of responsibility
- BEP & implementation of test cases
- Introduction & creation of coordination model
- Introduction & implementation of geometry
- Introduction, presentation & implementation of semantics testing
- Creation of QA report
- Introduction & implementation of issue management
- Introduction & implementation of data drops

Prof. Dr. Frank Petzold
Academic Program Director
BIM Information Modelling Professional
Lehrstuhl für Architekturinformatik, TUM

Prof. Dr.-Ing. André Borrmann
Academic Program Director
BIM Information Modelling Professional
Lehrstuhl für Computergestützte Modellierung und Simulation, TUM

Professional Certification

Foundation

Basic

Certificate No de.14.084

This is to certify that Carlotta Birelli

has successfully passed the Professional Certification - Foundation Basic exam.

This certificate attests to the knowledge and comprehension of openBIM fundamentals for the named individual and to the level stated above, according to the buildingSMART International Professional Certification program and VDI/bS 2552 Blatt 8.1.

Date: 22. Juli 2020

Richard Petrie,
Chief Executive
buildingSMART International

Gunther Wölfle,
Geschäftsführender
buildingSMART Germany

Prof. Dr.-Ing. Frank Petzold,
Technische Universität München

Program

Chapter

Provider

Professional Certification
Practitioner
openBIM Management

This is to certify that

Carlotta Birelli

has successfully demonstrated their competence in the application of openBIM to the buildingSMART Professional Certification Examination Board.

This certificate attests to the knowledge and practical expertise of the named individual for openBIM Management and the requirements defined in VDI/bS 2552 Blatt 8.2/ 8.3, Germany.

Date:
23. Juni 2026

buildingSMART International

Gunther Wölfle
Geschäftsführer
buildingSMART Germany

Verify Authenticity
7tvCovReoO

Professional Certification
Practitioner
openBIM Coordination

This is to certify that

Carlotta Birelli

has successfully demonstrated their competence in the application of openBIM to the buildingSMART Professional Certification Examination Board.

This certificate attests to the knowledge and practical expertise of the named individual for openBIM Coordination and the requirements defined in VDI/bS 2552 Blatt 8.2/ 8.3, Germany.

Date:
16. Juli 2026

buildingSMART International

Gunther Wölfle
Geschäftsführer
buildingSMART Germany

Verify Authenticity
UyrqHeRLW2

DB Training

Teilnahmebescheinigung

Carlotta Birelli
Personalnummer x5011549

absolvierte am 16.10.2024 das Seminar

PKP Online-Anwenderschulung (Ty4162)

mit den Inhalten:

- Einleitung in die Projektkommunikationsplattform (PKP)
- Projektdokumentation
- Suchfunktion von Dokumenten
- Anpassung der Benutzeroberfläche
- Ticketsystem
- Planmanagement
- Modellmanagement

Erstellt durch den/die Verantwortliche/n DB Training, Learning & Consulting, am 16.10.24 und ohne Unterschrift gültig. Die Teilnahme wurde durch den/die Lernbegleiter*in bestätigt.

Zertifiziertes Qualitätsmanagementsystem durch:

TEILNAHMEBESCHEINIGUNG

für

Carlotta Birelli

&MICA GmbH

Die LOROP GmbH bestätigt die erfolgreiche Teilnahme an der Veranstaltung:

DATENSCHUTZSCHULUNG

Diese Schulung beinhaltete folgende Themen:

- Rechtsgrundlagen Datenschutz
- Rechte der betroffenen Personen
- Schutzziele
- Zweckbindung
- Häufige Bedrohungen / Schwachstellen
- Private Nutzung von dienstlich bereitgestellten Kommunikationsgeräten
- Sichere E-Mail-Nutzung / Internet-Nutzung
- Technische & Organisatorische Maßnahmen
- Passwortsicherheit
- Social Media
- Umgang mit mobilen Datenträgern
- Löschung und Vernichtung von Daten
- Arbeiten im Home-Office
- Verzeichnis von Verarbeitungstätigkeiten
- Auftragsverarbeitung
- Meldepflichten
- Sanktionsrahmen
- Datenübermittlungen im Rahmen des Data Privacy Frameworks
- ChatGPT und OpenAI
- Hinweisgeberschutzgesetz (HinSchG) und Whistleblowing

Berlin, den 24.11.2023

Unterschrift Dozent der LOROP GmbH

ARCHITEKTEN
KAMMER
BERLIN

KÖRPERSCHAFT DES
ÖFFENTLICHEN RECHTS

URKUNDE

gemäß Berliner Architekten- und Baukammergesetz (ABKG) vom 6. Juli 2006, GVBl. S. 720, zuletzt geändert durch das dritte Gesetz zur Änderung des Berliner Architekten- und Baukammergesetzes vom 7. Juli 2016, GVBl. S. 425

Frau **Carlotta Birelli**

geboren am 13. Juli 1967

in Venedig

wurde am **24. Juni 2021**

unter der Nummer **17945**

aufgrund des Beschlusses des Eintragungsausschusses in die Architektenliste des Landes Berlin als

Architektin

eingetragen.

Berlin, den 24. Juni 2021

Theresa Keilhacker
Präsidentin

Siegel
Architektenkammer Berlin
3



IN NOME DELLA LEGGE

IL MINISTRO DELL'ISTRVZIONE, DELL'VNIVERSITÀ E DELLA RICERCA

VEDVTO IL RISVLTATO DEGLI ESAMI DI STATO
SOSTENVTI NELLA II SESSIONE SVOLTASI
NELL'ANNO MMII

CONFERISCE
A

CARLOTTA BIRELLI

NATA A VENEZIA IL XIII LUGLIO MCMLXVII

L'ABILITAZIONE ALL'ESERCIZIO DELLA PROFESSIONE DI

ARCHITETTO

E RILASCIA IL PRESENTE DIPLOMA A TVTTI GLI EFFETTI DI LEGGE

DATO A **VENEZIA** IL **XXVIII LUGLIO MMX**

P. IL MINISTRO

REPUBBLICA ITALIANA

IN NOME DELLA LEGGE

NOI PROFESSORE MARINO FOLIN RETTORE MAGNIFICO

DELL'ISTITUTO UNIVERSITARIO DI ARCHITETTURA DI VENEZIA

VEDUTI GLI ATTESTATI DEGLI STUDI COMPIUTI DA

CARLOTTA BIRELLI

NATA A VENEZIA IL GIORNO 13 LUGLIO 1967

VEDUTO IL RISULTATO DELL'ESAME GENERALE DA LEI SUPERATO

IN QUESTO ISTITUTO IL GIORNO 3 NOVEMBRE 1995

LE CONFERIAMO LA

LAUREA IN ARCHITETTURA

Il presente diploma di laurea viene rilasciato a tutti gli effetti di legge

N. 15867 di registro, dato a Venezia il giorno 14 dicembre 1995

Il Dirigente

Il Rettore

ISTITUTO UNIVERSITARIO DI ARCHITETTURA DI VENEZIA
Divisione Servizi agli Studenti

(20/1996) Reg. al N. 006679 A.A. 1995/96 Matricola 212979 Pag. 1 di 1

Si certifica che BIRELLI CARLOTTA nata il 13/07/1967 a VENEZIA (VE), ha superato l' esame di LAUREA il giorno 03/11/1995 riportando punti 110 su 110 ed e' stata proclamata dottore in ARCHITETTURA.

La durata legale del suddetto corso e' di anni CINQUE.

Il presente certificato si rilascia in carta libera per ogni uso consentito dalla legge.

Venezia, 30/11/95

F.to Il Rettore

F.to Il Direttore Amministrativo

Per copia conforme all' originale depositato in archivio.

L' Addetto al Rilascio

Ivano Aldreghetti