



University of
Nottingham

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Training and Consultancy for Sustainability, Well-Being and Digitalisation

宁波诺丁汉大学

可持续发展与建筑工程数字化培训及咨询项目



Short trainings 短期培训

(licensed by BRE Academy and Autodesk)
(英国建筑研究院和 Autodesk 指定授权培训中心)



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BIM ISO19650 Training Modules

BIM ISO19650 培训模块

Course Language
授课语言

English/Chinese
英文 / 中文

1. BIM ISO19650 Essentials Training Course comprises of a two-day classroom or LIVE session, including an examination which is the first step towards BIM membership and certification.

BIM ISO19650 基础课程包含为期两天的线下或线上直播课程，包括一个考试，这是迈向 BIM 会员资格和认证的第一步。

Learner outcomes: 学习成果

The course will enable students to gain:
这门课程将使学生收获：

- An insight into processes
对整体流程的深刻理解
- A good understanding and knowledge of the key principles of Building Information Modelling (BIM) Level 2, which can be applied locally while still being consistent with the industry internationally
对建筑信息模型 (BIM) 二级的关键原理有良好的理解和认识，既可以在本土应用，又可以在国际上与行业保持一致
- An awareness of the emerging building SMART international information standard
对一种新兴的建筑智能信息标准的认知
- Relevant knowledge and capabilities to achieve internationally recognised good practice
具备国际认可的良好实践应用的相关知识和能力
- Awareness of other international development such as open BIM initiatives formed to facilitate interoperability
对其他国际发展方向的认识，比如为促进互操作性而形成的开放 BIM 协议
- An understanding of BIM from a whole life cycle perspective
从全生命周期的角度理解 BIM
- A knowledge of where to access standards and resources to take learning back into the workplace
如何获取标准和资源并学以致用用的知识
- Professional certification/accreditation
专业的证书和认证

Course Modules 课程安排

Day 1 第一天

Catalyst for change 推动变革

What is BIM 什么是 BIM

Introduction 介绍

Intro to ISO19650 ISO19650 介绍

Assessment and need 评估和需要

Procurement & Planning 采购和计划

Invitation to Tender 招标

Tender Responses 投标

Appointment 任命

Mobilization 动员

Day 2 第二天

Production 产品

Collaborative Production 协同生产

Information Model Delivery 信息模型交付

Project Close Out 项目结束

Project Information Standards 项目信息标准

Open BIM 开放性 BIM

Examination 测试

2.BIM ISO19650 for Information Managers Training Course is a one-day classroom or LIVE course comprising of workshops, exercises, discussions and an open book exam

BIM ISO19650 信息管理培训课程是为期一天的线下或线上直播课程，包括互动工作坊、练习、讨论和开卷考试。

- Completion of BIM ISO19650 Essentials is a prerequisite BIM
参与者必须先完成 ISO19650 基础课程
- For professionals who undertake the role of either Project Information Manager (PIM) or Task Information manager (TIM)
针对担任项目信息经理 (PIM) 或任务信息经理 (TIM) 角色的专业人员开设

The course covers: 课程主要涵盖：

- Extracting information requirements 信息需求提取
- Synthesizing standard, methods and procedures (SMPs) 综合标准、方法和程序 (SMPs)
- Directing the production of information 指导信息生产
- Delivering information exchanges 信息交互

BREEAM Training Courses

英国建筑研究院绿色建筑评估体系 (BREEAM) 培训模块

Course Language
授课语言

English
英文

Learner outcomes: 学习成果

The course will enable students to:
这门课程将使學生能够：

- Gain knowledge of sustainability principles;
获得可持续发展原理的知识
- Comprehend the reasons and process behind the development of environmental assessment methods;
了解有关环境评价方法发展的原因和过程；
- Comprehend specific technical aspects of international standard BREEAM, its scope and key categories within the methodology;
了解 BREEAM 国际标准的具体技术层面，其涵盖范围和方法中的关键类别；
- Understand the similarities and differences between GB standard and BREEAM;
了解国标 (GB) 与 BREEAM 标准的异同；
- Accredited with BREEAM professional qualification.
获得 BREEAM 专业资格认证。



1.BREEAM AG programme comprises of five lectures and two final assessments (an online multiple choice examination, and an essay, each providing 50% of the total mark).

BREEAM AG 课程包括五次大课和两次期末评估（一次线上选择题测试和一篇论文，各占总分的 50%）。

- Lecture A - Five Reasons you should be talking about sustainability
讲座 A- 谈论可持续发展的五个原因
- Lecture B - Mitigating life-cycle impacts
讲座 B- 减轻生命周期的影响
- Lecture C- Incorporating best practice with environmental frameworks
讲座 C- 将最佳实践与环境框架相结合
- Lecture D - Integrating BREEAM throughout the design process
讲座 D- 在设计过程中集成 BREEAM
- Lecture E - Learning for the online test.
讲座 E- 在线测试学习

2.BREEAM AP programme comprises of online learning sessions (15 hours pre-learning), a workshop (4 hours LIVE training or 6 hours classroom training) and one assessment.

BREEAM AP 课程包括在线学习课程（15 小时预学习）、互动（4 小时线上直播课程或 6 小时线下课程）和一个测试。

- Online learning: The online pre-workshop modules must be completed prior to attending the workshop, to enable candidates to have the best chance to pass the examination.

The online modules cover:

在线学习：在参加培训前，学员必须提前完成在线模块的学习，提升学员通过考试的机会。

在线模块包括：

The role of a BREEAM AP;

BREEAM AP 的角色

Background and scope of BREEAM;

BREEAM 的背景和范围；

BREEAM Assessment methodology;

BREEAM 评估方法；

BREEAM schemes technical content;

BREEAM 方案技术内容；

Decision timeline; 时间线决策

Decision priorities 优先级决策

- Workshop: 研讨会

BRE Introduction; BRE 介绍；

BREEAM Overview; BREEAM 概述

BREEAM Methodology; BREEAM 方法论；

BREEAM Application in design and construction stage;

BREEAM 在设计和施工阶段的应用

Comparison on costs per percentage point basis;

百分点成本的比较

BREEAM schemes introduction; BREEAM 方案介绍

BREEAM professionals introduction;

BREEAM 从业人员介绍

BREEAM and China Three Star Mutual- Recognition;

BREEAM 与中国三星相互认证；

Mock exam 模拟考试

- Examination: a 60 minute multiple choice examination.
考试：60 分钟的选择题考试。

3. BREEAM International New Construction Assessor Programme comprises of online learning modules, interactive workshops and two multiple choice examinations.

BREEAM 国际新建筑评估师课程包括在线学习模块、互动工作坊和两次选择题考试。

• Online learning 在线学习

BREEAM International 2016 scheme

BREEAM2016 国际方案

Approximately 30 hours of interactive online modules
大约 30 个小时的在线互动模块

Delivered through BRE dedicated online learning portal.

由 BRE 专业在线学习门户网站提供。

• Workshops 互动工作坊

2 days of classroom-based or one day online LIVE learning session
2 天的线下教学或一天的线上直播学习

Fully supported by a dedicated tutor for each module
每个模块都有专职导师的全力协助

Learning content:
学习内容

Brief initial test to ensure you have completed the online self-study modules
简短的初步测试，以确保您已经完成在线自学模块

Review of the BREEAM International processes
BREEAM 国际程序梳理

Focus on a couple of the most complex issues within the scheme
关注方案中最复杂的几个问题

Tailoring BREEAM International for different building types
为不同的建筑类型量身定制国际化 BREEAM

Selling BREEAM
推销 BREEAM

Relationship between different BREEAM Schemes
不同 BREEAM 方案之间的关系

Question and Answer Session
问答环节

• Examinations 测试

Two open-book multiple choice examinations
两门开卷选择题考试

Need to pass both examinations to become qualified BREEAM International assessor
需要同时通过两项考试成为合格的 BREEAM 国际评估师

Autodesk Software Trainings Autodesk 软件培训

Course Language
授课语言

Chinese/English
中文 / 英文

As an Autodesk Certified Training Centre and Examination Centre, UNNC now offers training in AutoCAD, Navis Works Manage and Revit.

作为 Autodesk 认证培训中心和考试中心，UNNC 现提供 AutoCAD、Navis Works Manage 和 Revit 的培训。



Corporate-specific Services and Consultancy

企业合作项目及咨询



In a time of significant environmental and urban change throughout the world, our Faculty of Science and Engineering, particularly our Department of Architecture Built Environment, provides companies and organizations with integrated solutions to grand challenges posed by environmental processes and related geological hazards. Meanwhile, multiple research groups have been formed to contribute to cultural heritage preservation and digitalization in collaboration with local museums.

在这个全球环境和城市经历重大变化的时代，宁波诺丁汉大学理工学院，特别是环境建筑系，有能力为公司和机构在应对环境变化和 Related 地质灾害带来的重大挑战中提供综合解决方案。

Collaborative commercial projects (previous cases) 合作商业项目 (前期案例)

- **Ningbo Lishe airport: Digitalization and information modelling project**
宁波栎社机场：数字化、信息化建模工程
- **Binus University (Indonesia): BIM lab setup; consultancy and training on BIM curriculum development**
印尼 Binus 大学：BIM 实验室建设；BIM 课程开发咨询和培训
- **Garden City Project: Masterplan for Ningbo in the confluence of rivers Yong, Yuyao and Fenghua**
宁波三江口滨水地区的综合改造项目



