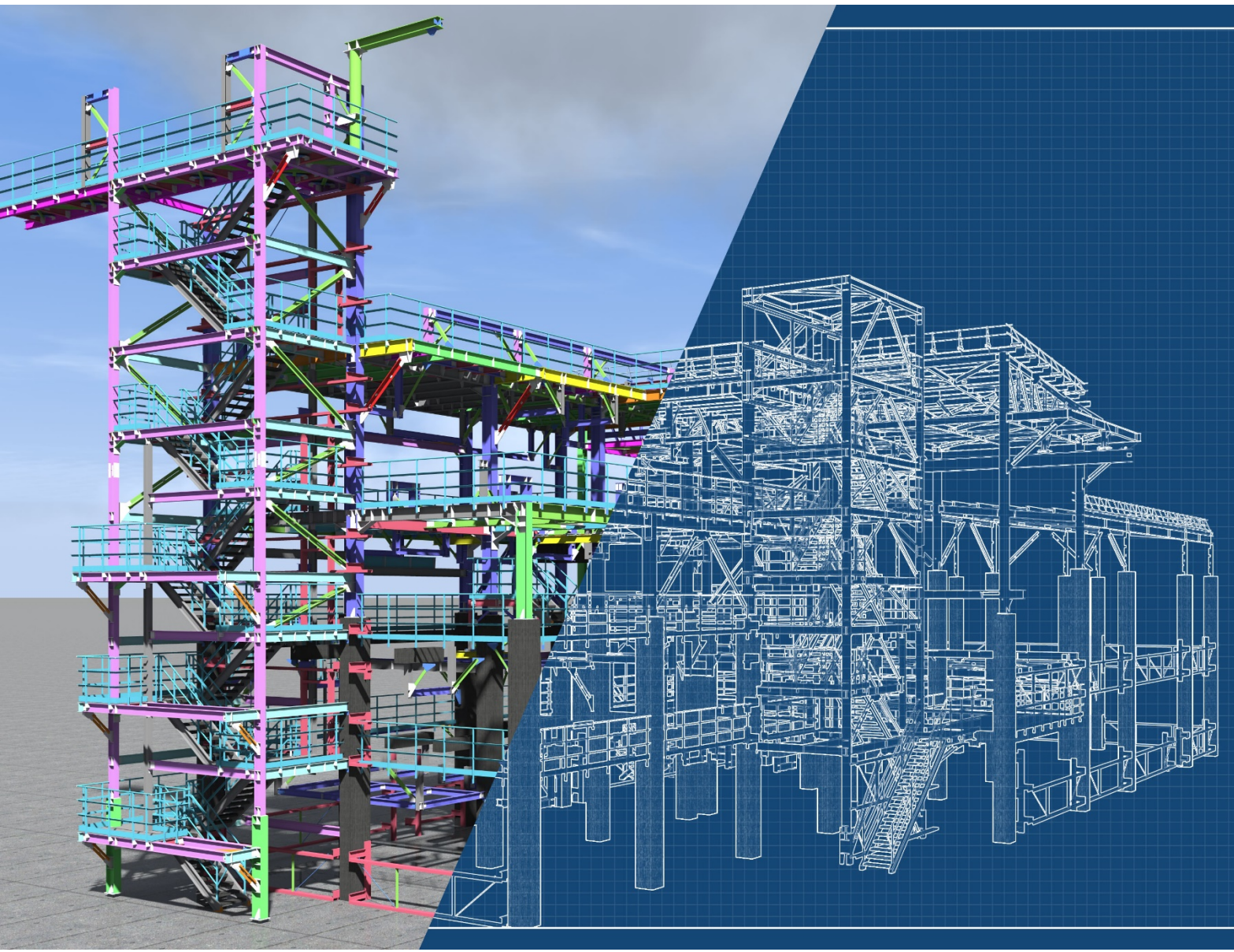# Global BIM Coordinator Professional Training
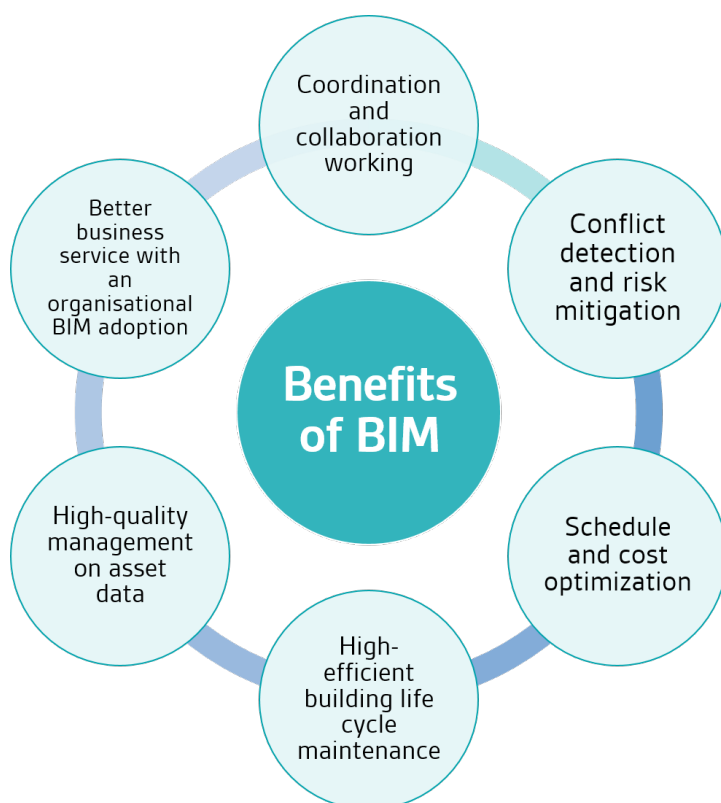
– *Course Brochure* –

WHAT is BIM?

BIM is revolutionizing the way the construction industry creates and cares for its assets around the world. It ensures that everyone in the supply chain; from architects, engineers, constructors and facilities management share information in a collaborative way. It is a new method of construction that delivers major benefits - most notably time and cost savings through building in a collaborative and by managing costs through the whole lifetime of a building. To facilitate the adoption of BIM BSI developed, together with construction industry experts, the UK 1192 series of standards which define BIM Level 2 published in 2013. The ISO 19650 suite of standards moves towards internationalising these standards.

Since 4 April 2016, BIM Level 2 is mandatory in a government project in UK. The use of BIM is also becoming more commonplace in other countries, such as Singapore, South Korea, Canada and China etc. In Hong Kong, BIM is being implemented in various sectors, such as BIM for Statutory Submissions in Architectural Services Department, BIM for Asset Management in Electrical and Mechanical Services Department, BIM for Utilities Design in Water Supplies Department etc.

In 2017, the HKSAR Government decreed that BIM technology must be used in the design and construction of all major government capital works projects with a project estimate of more than HK$30 million that were scheduled to start during or after 2018, and that the use of this technology in private construction projects should also be promoted.

In addition, to ensure the healthy development of BIM in Hong Kong, Construction Industry Council (CIC), has introduced the BIM Certification and Accreditation Schemes to ascertain the competency of BIM personnel and the quality of local BIM training courses. To be eligible for certification as a CIC-Certified BIM Coordinator (CCBC), one of the requirements is the successful completion of BIM Coordinator course accredited by the CIC.

To cope with the surge in demand for BIM personnel and training needs, we are pleased to announce that BSI launches the "Global BIM Coordinator Professional Training". We aim to offer delegates a quality BIM Coordinator training with the appropriate skill levels and competency in using BIM technology at international standard.

Benefits of BIM

- Coordination and collaboration working
- Conflict detection and risk mitigation
- Schedule and cost optimization
- High-efficient building life cycle maintenance
- High-quality management on asset data
- Better business service with an organisational BIM adoption

Background of Institution

BSI - Source of the Standards
BSI formulated PAS 1192 standard

The UK currently the region, which sees the fastest growth in the application of BIM. As one of the countries utilising BIM for many government projects at the earliest, UK not only published various regulations and relevant standards but also issued the mandatory policies in April 2016. During this course, BSI played an important role in BIM standardisation pushed by the UK government: in 2014, entrusted by the Construction Industry Council (CIC) of UK, BSI formulated PAS1192 standard.

Meanwhile, BSI also provides the construction companies globally with the standard certification services specific to the BIM competency for project delivery in design and construction stages. In 2016, BSI launched the BIM-related Kitemark. So far, the enterprises which have been certified by BSI Kitemark: Balfour Beatty Plc, BAM Ireland, BAM Construct UK Ltd, Gammon Construction Ltd, Skanska UK Plc and voestaplineMetsecPlc.

Admission Requirement:

Qualification:
A diploma (or equivalent) in Qualifications Framework (QF) Level 4 or above qualification accredited
or
recognised by a CIC-recognised professional body in architecture, engineering, surveying, building or construction, or equivalent, as recognised by CIC, plus 3 years of full-time relevant work experience (with at least 6 months stationed in Hong Kong)

Practical experience in BIM project coordination and related tasks:
At least one year full-time relevant BIM experience in BIM projects, that able to demonstrate the applicant possessing the required levels of the Core Competencies as stipulated in the Certification of BIM Coordinators.

Policies and procedures for admission
- Completion of Application Form by internet or hardcopy formats
- Submission of relevant documents to prove the requirements as stated in Section 5.1 (Original copy is required if necessary)
- The profile of the applicant will be sent to training operations manager for approval
- Non-standard route of admission will be given to applicants who do not meet the admission requirement under special consideration of programme director

WHO should take this course?

It is targeted at BIM practitioners who already have relevant practical experience in BIM projects, meet the relevant academic requirement and aim to apply for CIC certified BIM Coordinators.

The training course targets, but not limited to:

- Asset, Engineering, Quality, Facility, Project, Technical Managers
- Real Estate Developers
- Civil, Mechanical and Structural Engineers
- Architects
- Construction Professionals
- Contractors
- Surveyors
- Academia and Government Authorities

From the following industries:

- Government
- Construction
- BIM Consultancy
- Building Materials
- Quantity Surveying
- Project Management
- Architecture
- Real Estate Planning and Development
- Asset Management
- Property and Facility Management
- Green Building Development and Management

NITTP Fund Claimable

Our Global BIM Coordinator Professional Training is registered under New Industrialisation and Technology Training Programme (NITTP), which is a funding scheme under the Innovation and Technology Fund which subsidises local companies on a 2:1 matching basis to train their staff in advanced technologies, especially those related to "New Industrialisation".

The course fee is **HKD 3,333 only** (original: HKD 10,000) after NITTP

reimbursement. For details of NITTP, please refer to VTC website at https://

nittp.vtc.edu.hk/programme-description.

NITTP Fund Claimable

CITF Fund Claimable

Our course is also registered under the Pre-Approved Lists of Construction Innovation and Technology Fund (CITF). Funding ceiling is HK$200,000 per applicant. With the funding ceiling, each person enrolling training is entitled to HK$3,000 per course at maximum.

The course fee is **HKD 3,000 only** (original: HKD 10,000) after CITF reimbursement.

For details of CITF, please refer to CITF website at https://www.citf.cic.hk/

CITF Pre-approved Product

WHAT will be taught?

Day 1 - Introduction to BIM

Topic	How this will help you understand
• BIM Concept • Local & Global Contexts, BIM standards and guidelines • BIM Software • BIM Uses and Processes • Administration of the BIM projects as a project BIM coordinator	• The definitions and terminology of BIM • The value and benefits of adopting BIM in whole project & whole estate perspective • Challenges within existing working practices & how BIM addresses them • CIC BIM Standards , Government BIM standards & resources, ISO 19650, BIM FORUM LOD Specification, OpenBIM (BCF, IFC, IDM, bsDD, COBie, etc.) • Characteristic, file format, strength and limitation, general hardware and software requirements for common BIM software • BIM related documents such as Employer's Information Requirement (EIR), Asset Information Requirement (AIR), BIM Execution Plan (BEP) throughout the full project life-cycle • Administration and maintenance of BIM models in BIM project

Day 2 - Role and Responsibilities of CCBC

Topic	How this will help you understand
• Administration of the BIM projects as a project BIM coordinator • Execution of BIM Uses for single and • multi-disciplinary coordination in BIM project	• Setup, creation and publishing of BIM models following BIM related documents such as BEP or BIM standards • Establish and maintain data structures or links throughout the BIM processes • Administration and maintenance of BIM models in BIM project • 3D Coordination, Phase Planning (4D Modelling), Design Reviews, Drawing Production directly from BIM software/ platform

Day 3 - Potential BIM Use 1

Topic	How this will help you understand
• Execution of BIM Uses for single and multi-disciplinary coordination in BIM project	• 3D Coordination (As stated in CIC BIM Standards Phase 1) • Phase Planning (4D Modelling) (As stated in CIC BIM Standards Phase 1)

Day 4 - Potential BIM Use 2

Topic	How this will help you understand
• Execution of BIM Uses for single and multi-disciplinary coordination in BIM project	• Design Reviews (As stated in CIC BIM Standards Phase 1) • Drawing Production directly from BIM software/ platform

Day 5 - Information Management in BIM

Topic	How this will help you understand
• Technologies • Assist in BIM related meetings • Digital Information Management	• Internet & cloud, Laser scanning & photogrammetry, GIS, IoT, mobile or smart devices, RFID, Programming, automation and API etc. • Meeting with Lead Appointed or Appointed Party, Multidiscipline collaboration meeting, Site co-ordination meeting 3D Coordination • Data exchange of relevant BIM software for single/ multiple discipline(s) collaboration • Limitation of data exchange in BIM Key personnel in relation to BIM and roles and responsibilities • Establish and maintain data structures or links within the BIM software/ platform protocol

Day 6 - CDE in BIM

Topic	How this will help you understand
• Common Data Environment (CDE) • Data Quality Control & Assurance across various stages	• Overview of CDE and common CDE platform • Administration and maintenance of CED including relevant project information standards and project information management methods and procedures • Limitation of CDE • System Checking

Day 7 - QC & QA of Data in BIM

Topic	How this will help you understand
• Data Quality Control & Assurance across various stages	• Model audit • Model checking including Clash avoidance strategies and Clash detection resolution methodologies • Audit reporting Overview of common CDE platform

Programme Director

Ir. Stephen Yu
Operations, Compliance & Risk Director, British Standards Institution

Stephen is a Chartered Engineer in gas and mechanical discipline, Engineering Council (UK), Registered Professional Engineer (Hong Kong Engineers Registration Board), IRCA QMS Lead Auditor, CCAA QMS Lead Auditor, IMS Lead Auditor of ISO 10002, ISO 9001, ISO 14001, ISO 45001 & ISO 50001 and GHG Verifier.

Currently, Stephen is the Operations, Compliance & Risk Director of BSI Hong Kong. He has over 24 years experience in compliance audit and training for multi-national corporations, domestic companies, government organizations, NGOs and SMEs in their Quality, Environmental, Occupational Health & Safety, Green House Gases (GHG) and energy management certification projects.

Stephen is also scheme qualifier for PAS 55 / ISO 55001 (Asset Management) executing and implementing the scheme manual and assessment criteria including training up BSI assessors at Asia region.

External Reviewer

Mr. LOW, Hon Wah
MSc, F.PFM, FHKIS, FRICS, MHKCS, MHKIBIM, RPS(QS/PFM)

Mr Low has over 40 years working experience in the construction field. The services scope covers all round development stages, including early feasibility studies and planning, consultants and contractors appointments, contracts management and construction of various types of new projects; repairs and maintenance, alterations, additions and improvements, demolition and disposals of existing buildings. Nature of projects handled includes commercial, residential and academic buildings; high risk laboratories, auditorium, hostels and hotel.

For all the projects, Mr Low has to work closely with various different Government departments, users, design consultants, contractors, associated suppliers, etc. With these wide and extensive working experiences, Mr Low has been equipped with sound knowledge and competing edge in managing facilities design, planning and contracts management for both new build and built-assets.

Since 1985, Mr Low has been offering visiting lectureship for Higher Education Institutions in facility management, quantity surveying, contracts administration, services level agreement and related subjects, and have organised / delivered various conferences/ courses regarding FM and BIM. In the recent years, Mr Low has been promoting the use of BIM to enable efficient and effective information sharing and communications at various stages of the entire asset life cycle.

Instructor teams

Rebecca De Cicco
BIM Tutor, British Standards Institution
Fellow of the Chartered Institute of Building
Chairlady of "Women in BIM"

Rebecca supports Building Smart globally, sits on the Autodesk Developer Network and Expert Elite groups and works with the UK BIM Alliance and BIM Regions to help industry upskill. She is a strong advocate for diversity (Chairlady of "Women in BIM") and works with higher education by tutoring and lecturing both undergraduate and postgraduate students in BIM and construction management.

She is also a fellow of the CIOB and offers support and training to institutions in the BIM space. Having a keen interest in BIM and the drive toward implementing BIM in the UK, she was invited to join a number of leading industry groups such as the BIM Task Group and Building Smart.

Mr Freddy Soh
Client Manager, British Standards Institution

A background in mechanical engineering and Environmental health and safety has supported Freddy's role as corporate Environmental Health and Safety lead with Heraeus materials Asia Pacific, involved with communication and execution of corporate EHS strategy.

As a Singapore certified management system and environmental health & safety consultant at Neville Clarke also brought new insight working with Government bodies and Industry leaders from manufacturing, construction to petrol chemical.

The 18+ years of experience has helped developed a systematic and structured approach to work and problem solving. Freddy is also a registered workplace safety auditor, Fire Safety Manager and IRCA QMS auditor.

The relevant areas of training and audit covers ISO 9001 Quality, ISO 14001 Environment, ISO 45001 Health & Safety ISO 50001 Energy Management System, ISO 41001 Facilities Management, Corporate Social Responsibility (CSR), ISO22301 Business Continuity and Risk Management, BIM level 2 etc.

Dr. Alaric Kuo
Client Manager, British Standards Institution

Alaric is a passionate BIM champion in Taiwan's social network. He created first BIM information news Facebook page in 2010, and actively participated in Taiwan Building Information Modeling Association (TBIMA) since 2012. Alaric is Director and Vice Secretary in the 5th Director Board of TBIMA. Alaric not only had rich experiences in teaching and lecturing, but also had numerous publications including research papers in prestigious conference and journal, blog post, magazine article, and textbook chapter. With the passion in disseminating BIM knowledge, he organized over 100 BIM events ranging from study group seminar to national conference.

Alaric is the member of Taiwan BIM Task Group to support the local adaption of ISO 19650 series. The members of Taiwan BIM Task Group including NTU BIM center, TCRI, TABC and TBIMA are the most prestigious organization in Taiwan BIM development.

Mr Anthony Lam
Director, isBIM Limited
MBSHK, MHKIBIM, HKITJC, CCBM

Anthony Lam has over ten years of experience in BIM implementation and eight years of tutor experience. Since 2006, Anthony has involved in various projects such as BIM Project management and 4D simulations. He is a CIC-Certified BIM Manager, a professional member of Hong Kong Institute of Building Information Modeling (HKIBIM), an authorised BIM design/ Coordination Manager of the China Real Estate Association and a certificated BIM Engineer authorised by Autodesk.

In 2011, he has obtained the Autodesk Professional Certificate Revit Architecture 2011. Throughout his career in BIM implementation, Anthony has been sharing his professional experiences with companies such as AECOM, the Mott MacDonald Group, Hong Kong Housing Authority, CRC Construction, Arup Group Limited, Hsin Chong Group Holdings Limited, etc.

Training experience: Hong Kong Housing Authority, Hsin Chong Construction, Swire Properties, China State Construction

Mr Max Law
Associate Director, isBIM Limited
MBSHK, MHKIBIM, CCBM, HKITJC

Max Law has over nine years of experience in BIM Project management and coordinationand seven years of tutor experience. He has obtained bachelor degree in Building Engineering from The Hong Kong Polytechnic University and is specialised in E&M services coordination and project management. He is a CIC-Certified BIM Manager, a professional member of Hong Kong Institute of Building Information Modelling (HKIBIM). Max has been participating in numerous large-scale projects in the last nine years, for instance, the MTR railway development in Kai Tak, the Hong Kong Science Park Phase 3 development, etc.

Throughout his career in BIM implementation, Max has been sharing his professional experiences on different projects and training sections with companies such as Chun Wo Development Holdings Limited, Hsin Chong Group Holdings Limited, the Hong Kong Housing Authority, Paul Y Engineering, etc.

Training experience: AD+RG Architecture Design and Research Group, Wheelock Properties, HangLung Properties, Penta-Ocean Construction

Mr Pierre Lin
Associate Director, isBIM Limited
MBSHK, MHKIBIM, CCBM, HKITJC

Pierre Lin has over eight years of experience in BIM Project management and coordination since 2011 and six years of tutor experience. He has obtained a bachelor degree in Mechanical Engineering from the Hong Kong University of Science and Technology Pierre and is specialised in E&M services coordination and project management. He is a CIC-Certified BIM Manager, a professional member of Hong Kong Institute of Building Information Modelling (HKIBIM).

Pierre has been participating in numerous large-scale projects in the past eight years and they are the MTR railway development in Kai Tak, development at Hong Kong Science Park Phase 3, etc. Throughout his career in BIM implementation, Pierre has been sharing his professional experiences on different projects and training sections with companies such as Chun Wo Development Holdings Limited, Hsin Chong Group Holdings Limited, Hong Kong Housing Authority and Paul Y Engineering, etc.

Training experience: Hong Kong Housing Authority, Hsin Chong Construction, LWK +Partners, Shangri-La Group

Certificate

Notes: Trainees will be granted training certificate issued by BSI upon completion of the course and passing the examination.

Training Details

Duration:	7 days + Exam day
Time:	09:00 – 18:30 09:00 – 12:00 (Exam)
Venue:	BSI Training Rooms: 23/F, Cambridge House, Taikoo Place, 979 King's Road, Hong Kong or ISBIM Training Rooms: Room 16B & 19D, Nathan Commercial Building, 430 Nathan Road, Kowloon, Hong Kong

Graduation Requirements

1) Passing requirement for the full course: 60% of total score

- 35% of daily workshop
- 15% of assignment
- 50% of examination

Exam lower than 60% of the total score will be regarded as Fail. One time (only) re-take of the exam can be arranged, *Fee: HKD 500.*

2) Attendance: 100%

Enrolment

https://bit.ly/2LdQZF5

Find out more

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Visit: bsigroup.com/en-HK