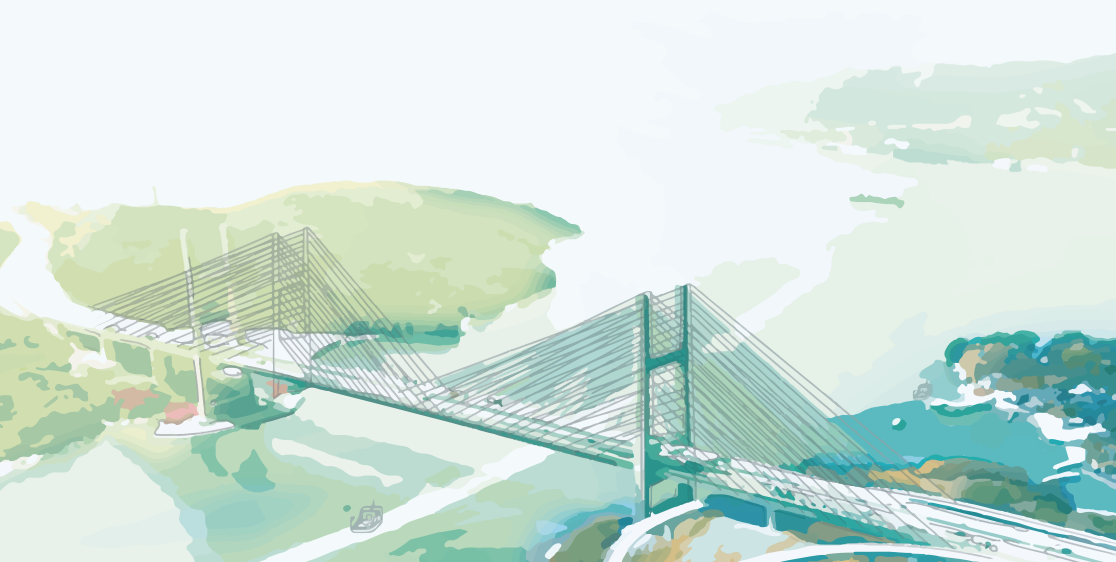




CONSTRUCTION INDUSTRY COUNCIL  
建造業議會

# CONSTRUCTION INDUSTRY COUNCIL 2019 MAJOR WORK PLANS



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## Chapter 1 Executive Director's Message

The Hong Kong construction industry undergoes a metamorphosis with growing expectations from the society. In order to fulfill the aspirations and needs from the industry, the Construction Industry Council (CIC) is implementing a wide range of new initiatives to uplift the industry's standards in the years ahead.

In 2019, the CIC will endeavor to improve the productivity, quality and safety of the construction industry in collaboration with the Government and industry stakeholders under the current volatile socio-economic environment. A series of new measures will be carried out to tackle the challenges faced by the industry such as aging workforce, high construction costs, increasing construction demands, etc. and also to seize the opportunities arising from the Greater Bay Area and worldwide.

Our efforts have hopefully instilled a positive image for the CIC and laid a good foundation for growth for the Hong Kong construction industry. With a forward-looking mindset, we have set out our work initiatives in this CIC 2019 Major Work Plans. Let's work hard to build a better Hong Kong.

Ir Albert CHENG Ting-ning  
Executive Director



## Chapter 2 Innovative, Sustainable and Productive Industry

### PREAMBLE

Technology brings huge potential opportunities and drives business transformations. The construction industry is no exception to this global development. Over the last decade, the industry has been transforming its mode of operation through automation and industrialisation to improve innovation, productivity, quality and sustainability.

As a statutory body, the CIC has a mission to advance the continuous development of the industry by encouraging wider adoption of new construction methods and technologies, for example, Building Information Modelling (BIM), Modular Integrated Construction (MiC), Design for Manufacturing and Assembly (DfMA) and other related innovative solutions.

To this end, the CIC will be rolling out various initiatives to promote innovation and technologies with a view to enhancing built quality, efficiency and environmental performance of the industry.



## INITIATIVES

### Building Information Modelling Adoption

- Conduct a survey to assess the existing level of Building Information Modelling (BIM) adoption and to identify areas for improvement.
- Promote cross-discipline fertilization and collaboration in project delivery by organising technical and promotion events, including “BIM Awareness Seminars and Workshops” and “BIM Talks”, a “BIM Competition”, and an “International Conference on BIM”.
- Work with the client organisations who have signed the BIM Adoption Charter to drive BIM adoption and collaboration via BIM requirements in their projects.
- Commence a study to explore ways to accelerate the development of a 3D Spatial Data Infrastructure for taking forward the Digital Hong Kong initiative.



## **Building Information Modelling Certification and Accreditation Schemes**

- Promote Building Information Modelling Certification and Accreditation Schemes (BIMCAS) to industry practitioners and training course providers and encourage BIM Manager certification and training course accreditation.
- Support the work of the BIM Certification and Accreditation Board to operate BIMCAS to uphold the quality of BIM Manager training courses and the professional standard of BIM Managers.

## **Building Information Modelling Standards**

- Issue BIM Standards (Phase 2) on Mechanical, Electrical and Plumbing; Level of Development and Underground Utilities by Q3 2019.
- Continue to work with the Buildings Department and other approving authorities to develop and roll-out BIM Standards on Statutory Plan Submission.

## **Establishment of BIM Space**

- Open a new BIM Space in Q2 2019, to showcase cutting-edge BIM technologies and applications, and for holding seminars, workshops, additional BIM training and advisory services.





## Construction Innovation Expo 2019

- Organise the Construction Innovation Expo 2019 with Development Bureau and the Center of Science and Technology and Industrialisation Development of the Ministry of Housing and Urban-Rural Development of the People's Republic of China to showcase the state-of-the-art construction technologies used in Hong Kong, Mainland China and overseas. The event will be held on 17-20 December 2019, together with three conferences, viz. the International Conference on BIM, International Conference on Modular Integrated Construction (MiC) and International Conference on Construction Productivity.

## Construction Innovation and Technology Application Centre

- Collaborate with Housing Authority to identify possible innovation technologies for adoption in relevant projects. CIC will provide consultancy services, organise innovation seminars or technical workshops, coordinate site trials and formulate technical specifications or system changes that would drive the application of these technologies in future Housing Authority's projects.



## Promotion of Construction Innovation and Technology Fund

- Promote the applications of the HK\$1-billion Construction Innovation and Technology Fund (CITF) and grant an average of HK\$200 million annual approved fund in the coming five years to boost the capacities of enterprises and practitioners in the construction industry. On the other hand the CIC will search and refer practical technologies for use in each specific trade. We will approach the top 50 levy paying contractors who have not yet applied for CITF to understand their needs. “CITF Station” has been set up while tailor-made workshops, luncheon and a CITF symposium will be held to promote the Fund.

## Design for Manufacture and Assembly

- Launch the Design for Manufacture and Assembly Alliance and implement measures to promote adoption of Design for Manufacture and Assembly (DfMA) in construction.
- Propose Key Performance Indicators on the adoption of DfMA in different subsectors and a DfMA appraisal standard for assessing the rate of DfMA adoption by Q3 2019.
- Arrange sector-based hub forums in Q2 to Q4 2019 to identify industry ambitions and specific challenges in wider adoption of DfMA, and to develop solutions.
- Propose recommendations on policies and measures to motivate and facilitate wider adoption of DfMA by early 2020.



## Modular Integrated Construction

- Continue to invite client bodies and industry practitioners in different construction sectors to visit the MiC Display Centre and to promote to them the benefits and use of MiC.
- Set up an Information and Helpdesk Service, including an e-platform to share the latest information and news on the use and development of MiC worldwide and an e-enquiry system plus a hotline for point-to-point communication with clients, practitioners and the public, to facilitate adoption of MiC in projects by Q3 2019.
- Work with regulatory authorities to prepare and disseminate to the construction industry a Guideline on statutory requirements for MiC Projects in Hong Kong by Q3 2019. The Guideline will be a living document which will be reviewed and updated from time to time.

## CIC Green Product Certification

- Unify the Carbon Labelling Scheme of the CIC and the Green Product Accreditation and Standards Scheme of the Hong Kong Green Building Council (HKGBC) and launch the unified scheme by Q4 2019. The CIC will collaborate with HKGBC to set the Scheme's strategic direction and promotion campaign.



## Chapter 3 Safe, Responsible and Well-informed Community

### PREAMBLE

As an integral part of Hong Kong community, CIC is committed to contribute to the sustainable development of the communities. Alongside driving the growth of the construction industry and advancement of infrastructure projects, CIC is committed to join hands with our stakeholders to build a more reliable, resilient and transparent city.

To demonstrate CIC's corporate responsibility and to connect communities, CIC has reached out to our stakeholders, industry, employers, workers, professionals, etc. to ensure that safety standards are observed to safeguard the well-being of workers and their families. CIC also seek to provide a more collaborative, quality and fair working environment for our community through enhancing procurement practices in the construction industry.

Members of the public are kept well-abreast of the development of the industry and impacts brought by urban development on the environment are well-managed. To further strengthen our commitment to the community, CIC also encourage construction practitioners to take part in a variety of volunteering services and sports programmes to promote a healthy lifestyle and boost the caring image of the industry.



## INITIATIVES

### Proactive Communications with Public

- Organise press conferences on a quarterly basis starting from Q2 2019 with an aim to disseminate information on the work of the CIC and the construction industry in a more proactive and strategic manner. Information regarding construction related topics such as manpower supply and growth, safety, productivity, competitiveness and innovation will be covered.

### Industry Image Building

- With a yearly theme of “Construction Innovation “ in 2019, the CIC will continue to organise a wide array of publicity campaigns such as “Construction Month” and thematic events to uplift the image of construction industry and enhance the brand awareness of the CIC.

### Stakeholder Engagement

- Organise a series of industry engagement and networking events, including CIC Construction Luncheons, Breakfast Round Table Meetings, and “Construction Industry Sports & Volunteering Programme” activities, as well as introduce various annual awards in relation to innovation, sustainability and excellent young construction practitioners.



### **CIC Spokespersons**

- Engage Chairpersons of the CIC's Boards / Committees and the top management as CIC Spokespersons in making public announcements and disseminating information to build trust and credibility with the media and public.

### **Promotion of Enhanced Procurement Measures**

- Continue to cultivate a collaborative culture in the construction industry through promoting the adoption of New Engineering Contract (NEC) by organising an engagement forum in April 2019. CIC can then examine the stakeholders' needs based on the views and experience gathered and propose ways to overcome the perceived barrier preventing the adoption of NEC.
- Develop appropriate procurement strategies and methods to facilitate the adoption of new building technologies such as MiC and BIM adoption as well as better market participation in the Repair, Maintenance, Alteration and Additional (RMAA) market.

### **Quality Supervision**

- Uplift the quality supervision regime of the construction industry to restore the professional image of the industry. Subsequent to the issue of Quality Alert and press statement, findings of a research study on improving the quality supervision system will be released in September 2019.



## **Reasonable Construction Period**

- Establish an objective benchmark for reasonable construction period for superstructure projects in 2019 to enable industry stakeholders to make well-informed decisions when setting project duration.

## **Ethnic Minorities**

- Address the shortage of construction manpower by encouraging ethnic minorities to join the construction industry. A Task Force on Ethnic Minorities will be established to review training provisions, job opportunities and employment arrangements. The Task Force will formulate initiatives by end 2019 to attract ethnic minorities to join the industry.

## **Greater Bay Area Initiative**

- Identify opportune areas and develop recommendations enabling the Hong Kong construction industry to grasp business opportunities arising from Greater Bay Area Initiative. A Final Consultancy Report with recommendations on improving the competitiveness of the Hong Kong construction industry will be presented to the CIC Council. An Industry Consultation Forum will be organised in Q2 2019 to collect views from stakeholders and for submission to the Government. A team will be set up to explore the opportunities and arrange visits to the Greater Bay Area.



## **Safety Culture**

- Organise the annual “Construction Safety Week” in May 2019, adopting “Innovation in Safety” as the theme and focusing on prevention of fatal accidents (in particular, fall from height), to continue to nurture safety culture among project clients, industry practitioners and workers. Follow-up culture building events will be organised in Q3 and Q4.

## **Centre for Construction Safety**

- Carry out design for a new “Centre for Construction Safety” at Kwai Chung Campus for showcasing latest technologies for enhancing worker safety, promotion of construction safety, and for providing enhanced confined space and Green Card 2.0 training, with a view to commencing construction by Q4 2019.

## **Roles and Responsibilities of Key Stakeholders on Construction Safety**

- Complete a study on the roles and responsibilities of key stakeholders in the construction industry on construction safety, and propose recommendations on measures to prevent fatalities in construction, in particular due to fall of person from height, by early 2020.





### **Truss-out Bamboo Scaffolding**

- Work with industry stakeholders and regulatory authorities to identify issues affecting safety of workers in truss-out bamboo scaffolding works and develop measures to prevent fatalities in such works by early 2020.

### **Lift Shaft Guidelines and Lifting Operations**

- Issue updated Lift Shaft Guidelines (Vol. 3) to incorporate a robust safety management system by end 2019.
- Work with industry stakeholders to develop a lifting supervisor course to enhance the safety of lifting operations by early 2020.

### **Zero Carbon Building**

- Instil a positive image of Zero Carbon Building (ZCB) as being environmentally-friendly, young and energetic, and position ZCB as a construction hub for industry events as well as a showcase for green initiatives and lifestyle. Renovation and revamp works of ZCB will be carried out and new exhibits will be showcased by VR technology, interactive games and vibrant videos.



## Chapter 4 Professional, Knowledgeable and Dedicated Workforce

### PREAMBLE

Construction practitioners and subcontractors are key stakeholders and the pillar of the Hong Kong construction industry. CIC aims to provide them with extensive support and quality services in all aspects, be it for worker and subcontractor registration, trade testing and training development.

The focus of our training in the past has been on craftsmanship and skill transfer. With the establishment of Hong Kong Institute of Construction in 2018, CIC aims to reform our training and learning practices and elevate the status of our training programmes by obtaining qualifications framework accreditation from the Hong Kong Council for Accreditation of Academic and Vocational Qualifications in phases. Our vision is to nurture an accomplished construction workforce with sound professional skills, theoretical knowledge, safety awareness, innovative ideas, passion and pride for the construction industry of Hong Kong.

CIC has set out the following key actions in 2019 with a view to developing and supporting a professional, knowledgeable and dedicated workforce in the Hong Kong construction industry.



## INITIATIVES

### Revamping the Teaching and Learning Practice

- Enhance the quality of training through reforming the teaching and learning practices by staff development programme and uplifting the teaching skills and methods of the instructing staff in 2019.
- Train up 'Can Do & Think' workers for the construction industry by introducing theoretical study in the skills-based training and better teaching and learning materials.

### Learning Programme Accreditation

- Seek accreditation award at Qualification Framework Level 3 for four streams of Diploma in Construction (namely Bar Bending & Fixing, Bricklaying, Plastering & Tiling, Joinery and Metal Works & Welding) and two part-time programmes on supervision of construction safety.



### **Hong Kong Institute of Construction Alumni Services**

- Organise alumni evening gathering and trade-specific employer luncheon regularly to engage alumni and new employers.

### **Centre for Professional Development of the Hong Kong Institute of Construction**

- Prepare for the launching of new programmes including Diploma in Construction Management (Sub-contractor) and Professional Diploma in Construction Management.
- Launch Construction Project Specific Workshops.

### **Learning Resources Centre of the Hong Kong Institute of Construction**

- Enhance the services of the Learning Resources Centre by launching an e-platform in September 2019 to allow students to access the electronic resources anywhere, anytime and in any device.

### **New Career Portal**

- Develop and launch an interactive career portal for employers, students and alumni for job-matching, job-posting and job-hunting purposes. Industry/career enhancement related information will be posted on the portal.



## **Taster Programmes by the Hong Kong Institute of Construction**

- Attract young adults and secondary school graduates to enroll HKIC training programmes through taster programmes.

## **Hong Kong Institute of Construction Tai Po Campus Development**

- Spearhead the project and complete schematic design in 2019 and prepare main contract tender and be ready for District Council and Financial Committee submission.

## **Nam Tei Training Ground**

- Engage the land consultants to obtain green light from the Town Planning Board to locate a training ground for HKIC as a replacement of Wai Lok Street Training Ground.

## **Siu Lam Training Ground**

- Engage the land consultants to obtain green light from the District Lands Office, Planning Department and Civil Engineering and Development Department to locate a training ground for HKIC.



## **Uplifting Projects and Revamp Works of Campuses and Centre**

- Carry out the uplifting projects of Kowloon Bay, Kwai Chung and Sheung Shui Campuses of the HKIC and revamp works of the Hong Kong Construction Industry Trade Testing Centre.

## **Launch of Registered Specialist Trade Contractors Scheme**

- Launch the Registered Specialist Trade Contractors Scheme, also known as “SRS 2.0”, in April 2019 with a view to building up a pool of professional and responsible specialist trade contractors. Key tasks include soliciting support from different organisations and major public bodies, launching a new website in Q3 2019 to disseminate information and introducing a relevant Application System by end 2019.

## **Widen Application and Enhance Service of Workers Registration**

- Explore the applicability of the Construction Workers Registration System in RMAA works. A report detailing factors for consideration, scope of application, and roadmap for implementation will be issued by December 2019.
- Build a dashboard collecting real-time data via the Construction Workers Registration System. The first set of data will be published on the Business Intelligence Tool in June 2019.

## Registered Construction Workers Festival

- Launch the Registered Construction Workers Festival tentatively in August to October 2019, covering a two-day camp, a series of seminars featuring topics of interest for registered workers, technical training and Scholarship for Family Members of Registered Construction Workers. The Festival allows the family members of registered workers to appreciate construction works done by their next of kin and nurtures their sense of belonging to the industry.

## Expansion of the CIC Service Centre (Nam Cheong)

- Expand Service Centre (Nam Cheong) for enhanced services and a refresh opening in December 2019.

## BIM Training Courses

- Obtain accreditation of the HKIC BIM Manager training course under the BIMCAS by Q2 2019.
- Continue to work with industry stakeholders to develop new BIM training courses to facilitate BIM adoption and to meet the needs of the industry.



## DfMA Training

- Establish an online platform to disseminate knowledge on DfMA and experience in the use of DfMA to industry practitioners by Q3 2019.
- Work with professional bodies and universities to arrange workshops and other forms of practical training for industry practitioners on DfMA.

## Safety Experience Training Centre

- Develop and implement programmes to provide state-of-the-art experience-based safety training for workers and frontline supervisors at the “Safety Experience Training Centre”, which was opened in February 2019.

## Collaborative Training

- Continue to provide training on trades with immediate demand (currently not provided by HKIC) such as reclamation works, through collaborative training to meet market demand. It is targeted to achieve 90% satisfaction rate in the 2019 year-end customers (trainees and employers) satisfaction survey and reduce the dropout rate of Advanced Construction Manpower Training Scheme – Pilot Scheme by 5%.





## CIC Approved Technical Talents Training Programme

- Continue to develop the programme structure of the CIC Approved Technical Talents Training Programme and solicit support from the Government, developers and public. The programme contents will cover on-the-job-training, campus-based skills enhancement, innovative technology and soft skills elements. A Launching Ceremony will be held in mid 2019.

## Review of the Trade Testing System

- Undertake a holistic review on the current trade testing system including application criteria, the associated fees structure, trade testing scoring scheme of major trades and appeal system in 2019. Regular exchange forums between Hong Kong Construction Industry Trade Testing Centre and HKIC will be organised to ensure consistency between trade test requirements and the skills taught by Hong Kong Institute of Construction.

## WorldSkills Competitions

- Participate in the WorldSkills Competitions held in Kazan, Russia in August 2019. The selected trainees will have their skills well-trained in various trades such as joinery, painting & decorating, plumbing & heating, wall & floor tiling and welding. A Skills Competitors Alumni will be established to foster exchanges and succession.



## Young Construction Conference 2019

- Organise the 2nd Young Construction Conference jointly with seven co-organisers in June 2019. Young construction practitioners will share their visions on influential topics such as young entrepreneurship, construction innovation and the industry's links with the community while local experts, academics and Government representatives will share their views on the development and latest trends of the construction industry.

## Construction Industry Outstanding Young Person Award 2019

- Organise the Construction Industry Outstanding Young Person Award 2019 to recognise and honour young practitioners who have excelled themselves in their own profession and contributed to the betterment of the construction industry and the community at large.

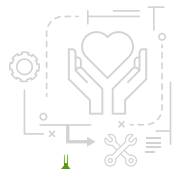


## **Chapter 5 Caring, Integrated and Committed Organisation**

### **PREAMBLE**

CIC strives to excel in current functions and to explore in new directions on how to better serve the construction industry. Over the past years, functions delivered by CIC have grown both in width and depth. The complexity of this business growth has led to the transition of in-house departments from supporting roles to proactive business partners engaged strategically in setting CIC's directions. CIC now expect swift and effective support from these in-house departments on planning for manpower, facilities and environment, IT resources, safety, policies and procedures as well as good corporate governance to cope with the specific needs of various business units.

"Care, Integrated, Committed" are identified as the core values of CIC staff. CIC staff are called upon to abide by these guiding principles to collaborate with each other to fulfill the mission and vision of CIC.



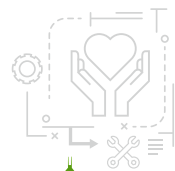
## INITIATIVES

### Corporate Culture Building

- Continue to embark on CIC's corporate culture building journey since late 2018 to recognise the core values of CIC as "Care, Integrated, Committed". The message will be cascaded to all CIC staff in 2019 through a series of events such as the nomination of Culture Champions, arrangement of more team building workshops, a Launching Ceremony, dissemination of promotional collaterals as well as a staff engagement survey.

### Internal Audit

- Promote good corporate governance, better control and risk assessment in accordance with the 3-Year Audit Plan approved by the Audit Committee. A total of 7 audit assignments will be carried out in 2019, covering Project Management Mechanisms and Control, Construction Innovation and Technology Application Centre, Collaboration Scheme, Corporate Communications, Construction Innovation and Technology Fund, Finance, and Career Support Services.

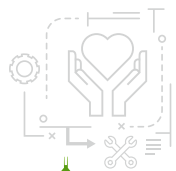


## **Grade Management of Secretariat Staff**

- Continue to enhance the quality of meeting documents and provide professional secretariat services to enable efficient meetings and better corporate governance. Proper operational guidelines and templates are available to ensure adherence, and regular training workshops on writing and presentation skills, etc. are organised three times a year to gear up colleagues.

## **Resources Planning, Staff Development and Succession Planning**

- Ensure a right mix of manpower resources providing the core competencies required to achieve CIC's business goals and objectives.
- Conduct a holistic review on resources planning, staff development and succession planning by phases starting 2019. The Review (Phase 1) will focus on the teaching staff of Hong Kong Institute of Construction (HKIC) and will commence in Q2 2019. Progress update and periodic review will be submitted to the CIC management on a regular basis.



## **Information Technology Enhancement**

- Continue to deliver quality information technology services in a secure environment. Various measures will be implemented in 2019 to better protect and monitor all IT-related security aspects.
- Continue to enhance the developed Trade Test Management System, Levy Collection System, Workers Registration System in 2019 and launch a Training Management System and an Estate Office Management System in Q3 2019.
- Explore possibility in applying more cloud-based services, such as email service and virtual desktop in 2019.

## **Safety Awareness**

- Enhance the safety awareness of CIC staff by introducing an online safety induction platform and case sharing sessions. Staff members would be able to acquire knowledge on CIC's safety rules, accident causes and preventive measures and to report workplace injury via the e-platform.


## **Construction Industry Sports & Volunteering Programme**


- Increase the total number of participants in Construction Industry Sports & Volunteering Programme (CISVP) events by engaging more construction organisations and organising workshops throughout 2019.
- Enhance the caring image of the construction industry through the introduction of Caring Construction Organisation logo in Q2 2019.






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