



The Hong Kong University of Science & Technology

Department of Civil and Environmental Engineering

Handbook for Civil Internship Program

2022

## **Objectives of Civil Internship Program**

1. To provide real working experience for students to enhance students' understanding and appreciation of the knowledge acquired from the academic courses.
2. To strengthen industrial collaborations in the curriculum development.
3. To follow the HKIE requirements on industrial training.

## **Arrangement of Civil Internship Program in 2022**

In the summer of 2022, all Year III CIVL & CIEV and Year IV CIGBM/CVGBM students will be pre-registered by the Department to take the required course CIVL3020 – Internship Training. Students are required to complete a minimum of six weeks on-the-job training in civil and environmental engineering consulting firms, contractors, developers or relevant government departments under the supervision of professional practitioners. The Department aims at providing a sufficient number of summer placements to all students based on their CGA. Students who have completed the summer jobs are required to submit a training report to the Department in September for review. Any student who fails to fulfil the requirement of CIVL3020 will be given an “F” and will be required to retake the course in the next summer.

We encourage our students to explore opportunities from different corporations and government departments via Career Center. For self-sourced internships, students may submit the Training Report to the Department by the same deadline to fulfil the requirements of CIVL3020. Course pre-approval will only be granted if students provide sufficient justification that relevant civil and environmental engineering experience will be gained. Furthermore, they need to have satisfactory performance under proper supervision of qualified engineers in the summer internship, which must not be shorter than six weeks.

## **Guidelines and Procedure**

Below are the regulations and guidelines applicable for the Civil Internship Program. The Department has liaised with the University Career Center which would forward the information of all potential training employers and jobs in civil and environmental engineering to the Department for nomination. Any private invitation or application through either academic staff or outsiders shall be referred to the Department for co-ordination and monitoring.

### **1. Ground Rules**

- (1) Students who seek the departmental nomination are required to **sign the Application and Agreement Form (Form 1)** provided by the Department and follow the regulations stipulated by the Department.
- (2) Students should study the HKIE “Ethics in Practice” and complete the quiz as provided on the webpage: [https://hkbedc.icac.hk/enewsletter/hkie\\_internet/main.html](https://hkbedc.icac.hk/enewsletter/hkie_internet/main.html). A copy of the **quiz certificate** should be submitted together with the **Form 1** to HKUST Qualtrics Survey System: [link](#) on or before **28 February, 2022**.
- (3) Job nominations are based on the students' academic results, i.e. CGA of the most recent semester. Summer job vacancies are limited. The Department will assist students in the best possible way for the summer job placement. However, the final decision of job appointments rests on the companies but not the Department. Interview by the employer may be necessary.
- (4) Students are required to seek prior approval before commencement of an internship, if it will be used to fulfil CIVL3020 internship training requirement. Approval is required for both departmental or university nominated positions and self-sourced internship. Submission after completion of internship or after the start of internship **will not be accepted**, and therefore the internship experience will not be counted towards CIVL3020. **You are required to submit the pre-approval form (Form 2) once you accept an internship offer. Please return the completed and signed application form to Ms Rebecca Yau.**
- (5) In order to maintain the communication between the intern trainees and the Department during the training period, the students are required to **complete the Interim Report of On-the-Job Training (Form 3) and upload the form to QUALTRICS within the first month of training.** This Interim Report helps the Department to monitor the quality of the internship and helps the trainees to solve both the technical and non-technical challenges encountered in office or on site.
- (6) Internship training is a part of your educational and career training process. You should accomplish the job with great responsibilities and efforts. The employers will complete the **Performance Appraisal Report of Summer Intern (Form 4)**. NO student shall resign or shorten the agreed training period without prior approval from both the employer and the Department. **The Department reserves the right to fail the course if the student violates the rule.**
- (7) Students are required to submit a Training Report, which should not exceed 2,500 words, excluding photographs, diagrams and drawings. The Report should summarize the job duties assigned and the

skills and knowledge gained during the internship training. The content and structure requirements of the Report are shown in the Appendix. **The Report should be submitted to Ms Rebecca Yau on or before 5 September 2022.** Students who fail in submitting the report on time will be given an “F” in CIVL3020.

- (8) For self-sourced internship, students may submit the Training Report to the Department by the same deadline to apply for fulfilling the requirements of CIVL3020. Course approval will be granted only if the student provides sufficient evidence that relevant civil and environmental engineering experience has been gained, the student has performed well under proper supervision by a qualified professional engineer in the summer placement and the summer placement has not been shorter than six weeks.

## 2. Nomination Procedure

Students who seek departmental nominations must follow the following procedure:

- (1) Once the Department receives the job information, we will send an email to all the Year III CIVL & CIEV and Year IV CIGBM/CVGBM students. In the email, the deadline for signing up will be specified.
- (2) Students who are interested in applying for the job should submit applications via HKUST Qualtrics Survey System. Late comers will not be entertained.
- (3) In general, the Department short-lists students based on their CGA of the most recent semester. However, the Department shall follow specific criteria set by employers, if any.
- (4) The short-listed students will be informed by a notification email.
- (5) Students should consider the job positions seriously before they sign up. They are **NOT ALLOWED** to decline the departmental nomination or offer given by companies unless extenuating circumstances such as medical emergencies happened beyond their control. For requests due to medical reasons, students are required to submit certification issued by a registered medical practitioner. Appropriate documentation will be required for requests due to other reasons. **Failure in providing legitimate justification upon the submission of nomination application or acceptance of offer will be subject to 3(3) below.**
- (6) Students who are nominated by the Department and appointed by the company **MUST** take up the job offer, otherwise they will **NO LONGER BE ELIGIBLE** for departmental nomination and will be subject to 3(3) below.
- (7) Students who are nominated by the Department but rejected by the company, are eligible to sign up job offers which are still open for applications. Students falling into this category do **NOT** have the priority over other students. Nominations are based on the students' CGA under all circumstances.
- (8) Students must report to Ms Rebecca Yau no matter whether they are appointed or rejected by the companies. For the reported rejections, Ms Yau will re-confirm with the companies, so that the students being rejected can apply for other job offers. For dishonest reporting, the students will be disqualified and **NO LONGER ELIGIBLE** for departmental nomination and will be subject to 3(3) below.
- (9) Students who are not formally rejected by the companies (or informed via the Department) are **NOT** allowed to withdraw their applications and sign up for any other jobs. Students should make their choices seriously. Some job offers, especially those offered by the government, may take a longer time to complete the appointment procedure.

## 3. Rights of the Department

- (1) The Department reserves the right to revoke a student's nomination if he or she shows any sign of irresponsibility during the nomination process.
- (2) If the Department receives complaints from the companies/departments regarding the poor performance of a student during the appointment period, the student will get an “F” grade in CIVL3020. Furthermore, the Department will keep these complaints on record and may refuse to write reference/recommendation letters when the student is seeking permanent employment or pursuing postgraduate studies in the future.
- (3) Penalties including but not limited to the below, will be imposed if student fails to comply with the Guidelines or training agreement, or if dishonest reporting is found:
  - The Department may refuse to write reference/recommendation letters
  - “F” grade may be assigned to CIVL3020
- (4) The Department will review the **Performance Appraisal Report of Summer Intern (Form 4)** from each employer after the end of the summer internship. The student may fail the course if he/she obtains a score of 2 or below in the overall performance.

## 4. Consultation

Students may contact **Prof Irene Lo** ([cecml@ust.hk](mailto:cecml@ust.hk)), **Ms Kris Chan** ([cekris@ust.hk](mailto:cekris@ust.hk)) or **Ms Rebecca Yau** ([cerebeca@ust.hk](mailto:cerebeca@ust.hk)) for consultation.

The Hong Kong University of Science and Technology  
Department of Civil and Environmental Engineering  
Year III Student Summer Job/Training  
Application and Agreement Form

**Form 1**  
(for Student use only)

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Name of Applicant: *(In English)* \_\_\_\_\_ *(In Chinese)* \_\_\_\_\_

Sex : \_\_\_\_\_ Student ID : \_\_\_\_\_ HKID No. : \_\_\_\_\_

Email : \_\_\_\_\_ Contact Tel : \_\_\_\_\_

I hereby request the assistance from the Department to put my name on the nomination list to be forwarded to various departments/companies for the application of summer job.

I have read, fully understand and agree to follow the "*Handbook for Civil Internship Program*" published by the Department. I am fully aware of the consequences outlined in the handbook for non-compliance.

I also agree that this form may be referred to any potential employer and that the employer may submit any performance appraisal to the Department during and after the employment / training.

Signature : \_\_\_\_\_

Date : \_\_\_\_\_

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Please complete the form and upload together with *HKIE quiz certificate* to [QUALTRICS](#) on or before **28 February, 2022**.

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**THE HONG KONG UNIVERSITY OF SCIENCE & TECHNOLOGY**  
**Department of Civil and Environmental Engineering**

**CIVL3020 Internship**

**Form 2**  
(used by Student)

**Departmental Pre-Approval Form**

Students are required to **seek prior approval BEFORE** commencement of an internship, if it will be used to fulfil CIVL3020 internship training requirement. Approval is required for both departmental or university nominated positions and self-sourced internship. Submission after completion of internship or after the start of internship will not be accepted, and therefore the internship experience will not be counted towards CIVL3020.

You are advised to submit the pre-approval form before you accept an internship offer. Please return the completed and signed application form to Ms Rebecca Yau at Room 3575, Lift 27/28 Department of Civil and Environmental Engineering, The Hong Kong University of Science & Technology, Clear Water Bay, Kowloon, Hong Kong

**PART I Personal Particulars**

Name: *(In English)* \_\_\_\_\_ Student ID : \_\_\_\_\_

Email: \_\_\_\_\_ Contact Tel : \_\_\_\_\_

**PART II Details of the Internship Positions**

Source of Internship\*: Department / Career Center / Self-Sourced

Company Name: \_\_\_\_\_

Nature of Business\*: Contractor / Consultant / Government / Others (please specify): \_\_\_\_\_

Position: \_\_\_\_\_

Job Description: \_\_\_\_\_

Salary: \_\_\_\_\_ Period: \_\_\_\_\_

Signature: \_\_\_\_\_ Date: \_\_\_\_\_

*\*Please delete as appropriate.*



### Interim Report of On-the-Job Training

**This Form is to be completed by the Trainee**

Name of Trainee \_\_\_\_\_ Mobile Phone No. of Trainee \_\_\_\_\_  
Position of Trainee \_\_\_\_\_ Report Date \_\_\_\_\_

A. Name of Organization \_\_\_\_\_  
Address of Organization \_\_\_\_\_

Name of Supervisor \_\_\_\_\_ Position of Supervisor \_\_\_\_\_  
Telephone No. of Supervisor \_\_\_\_\_ Email of Supervisor \_\_\_\_\_

B. Anticipated Training Period \_\_\_\_\_  
Nature of Training \_\_\_\_\_ (e.g. planning, design, construction)  
Training Details \_\_\_\_\_  
Name of Project (if any) \_\_\_\_\_  
Title of Contract (if any) \_\_\_\_\_  
Location of Address of Site (if any) \_\_\_\_\_

C. If you are satisfied with this training arrangement, please skip this section if desired

Communication problem \_\_\_\_\_  
Transportation and traveling problem \_\_\_\_\_  
Risk management problem \_\_\_\_\_  
Environmental problem \_\_\_\_\_  
Workload problem \_\_\_\_\_  
Cultural problem \_\_\_\_\_  
Technical problem \_\_\_\_\_  
Other problem \_\_\_\_\_

D. If you are satisfied with this training arrangement, skip this section if desired

Please arrange a discussion on the phone \_\_\_\_\_  
Please pay a visit to my office \_\_\_\_\_  
Please visit my site \_\_\_\_\_  
Please discuss with my colleague \_\_\_\_\_  
Please discuss with my supervisor \_\_\_\_\_  
Please approach me on my email address \_\_\_\_\_  
Other request \_\_\_\_\_

Signature: \_\_\_\_\_ Date: \_\_\_\_\_

Thank you for completing this form, after completion please upload the form to [QUALTRICS](#) **within the first month of training**

## **Employer Survey on Performance of Engineering Students in Internship Programs**

Dear Employer,

The purpose of this survey is to collect feedback from employers on the competencies of **undergraduate students in civil and environmental engineering discipline** of the Hong Kong University of Science and Technology (HKUST).

Your opinion is very important for us to continuously improve our programs and to better prepare our students for professional practice in their respective positions.

Please pass this form to the **immediate supervisors** of each of our students that you have employed as full-time staff and invite them to complete the form for **each individual**. Please make copies of this survey if necessary.

All the data obtained in this survey will be treated in strict confidence. Individual responses will be coded and reported in an aggregate form.

Please return the completed questionnaire to us on or before **September 5, 2022**. For enquiries, please contact Ms. Rebecca Yau (Tel: 2358 7164; E-mail: cerebeca@ust.hk).

Thank you in advance for your valuable input which will help us improve the quality of our programs and graduates.

Prof. Limin ZHANG  
Chair Professor and Head  
Department of Civil and Environmental Engineering  
The Hong Kong University of Science and Technology

**Part I – Demographic Information**

1. **Company Name:** \_\_\_\_\_
2. **Student Name:** \_\_\_\_\_
3. **How many internship employees does your company employ (worldwide, including Hong Kong)?**  
 Between 1 to 3 (inclusive)     Between 4 to 6 (inclusive)     Between 7 to 9 (inclusive)     Equal to or more than 10

**Part II – Details and Performance of Student**

1. **What is the student's year of study at HKUST during the internship period? (Please estimate)**  
 First year                       Second year                       Third year                       Not sure
3. **Please state the current post or job title of the student:** \_\_\_\_\_
4. **What is the employment period of the internship program?**  
 1 month or less                       2 months                       3 months                       4 months or more
5. **Job nature / responsibilities of the graduate (can tick more than one)**
- |  |   |
|--|---|
| <input type="checkbox"/> Structure Design                | <input type="checkbox"/> Real estate              |
| <input type="checkbox"/> Temp. Work Design               | <input type="checkbox"/> Foundation Design        |
| <input type="checkbox"/> Administration/ Management      | <input type="checkbox"/> Site formation           |
| <input type="checkbox"/> Tendering/ Procurement Process  | <input type="checkbox"/> ELS                      |
| <input type="checkbox"/> Land Surveying                  | <input type="checkbox"/> Utility Maintenance      |
| <input type="checkbox"/> Site Supervision                | <input type="checkbox"/> Structure Maintenance    |
| <input type="checkbox"/> Quantity surveying/ Measurement | <input type="checkbox"/> Road and Highways        |
| <input type="checkbox"/> Drainage                        | <input type="checkbox"/> Ground Investigation     |
| <input type="checkbox"/> Sewage                          | <input type="checkbox"/> EIA/ Feasibility Studies |
| <input type="checkbox"/> Transportation                  | <input type="checkbox"/> Environmental Protection |
| <input type="checkbox"/> Research                        | <input type="checkbox"/> Others (Please specify): |

***Please stamp the company chop here:***



Student Name: \_\_\_\_\_

6. Below are listed 12 abilities that an engineering graduate should possess. **Please read the items and identify the appropriate level that reflects your expectation (with 1 being the lowest and 5 being the highest) for an engineering graduate of the post and the actual performance (with 1 being the lowest and 5 being the highest) of the student.** If a particular ability is not required for the post, or if you cannot evaluate the performance of the student for a specific item, please choose n/a.

<b>1) Apply knowledge of mathematics and science to think analytically and logically</b>						
<i>Expectation</i>	<input type="checkbox"/> 1	<input type="checkbox"/> 2	<input type="checkbox"/> 3	<input type="checkbox"/> 4	<input type="checkbox"/> 5	<input type="checkbox"/> n/a
<i>Performance</i>	<input type="checkbox"/> 1	<input type="checkbox"/> 2	<input type="checkbox"/> 3	<input type="checkbox"/> 4	<input type="checkbox"/> 5	<input type="checkbox"/> n/a
<b>2) Apply scientific and engineering principles to the solution of complex problems</b>						
<i>Expectation</i>	<input type="checkbox"/> 1	<input type="checkbox"/> 2	<input type="checkbox"/> 3	<input type="checkbox"/> 4	<input type="checkbox"/> 5	<input type="checkbox"/> n/a
<i>Performance</i>	<input type="checkbox"/> 1	<input type="checkbox"/> 2	<input type="checkbox"/> 3	<input type="checkbox"/> 4	<input type="checkbox"/> 5	<input type="checkbox"/> n/a
<b>3) Understand the process of experimentation and able to analyze and interpret scientific data</b>						
<i>Expectation</i>	<input type="checkbox"/> 1	<input type="checkbox"/> 2	<input type="checkbox"/> 3	<input type="checkbox"/> 4	<input type="checkbox"/> 5	<input type="checkbox"/> n/a
<i>Performance</i>	<input type="checkbox"/> 1	<input type="checkbox"/> 2	<input type="checkbox"/> 3	<input type="checkbox"/> 4	<input type="checkbox"/> 5	<input type="checkbox"/> n/a
<b>4) Use computers/IT tools necessary for the profession</b>						
<i>Expectation</i>	<input type="checkbox"/> 1	<input type="checkbox"/> 2	<input type="checkbox"/> 3	<input type="checkbox"/> 4	<input type="checkbox"/> 5	<input type="checkbox"/> n/a
<i>Performance</i>	<input type="checkbox"/> 1	<input type="checkbox"/> 2	<input type="checkbox"/> 3	<input type="checkbox"/> 4	<input type="checkbox"/> 5	<input type="checkbox"/> n/a
<b>5) Identify, formulate and solve engineering problems</b>						
<i>Expectation</i>	<input type="checkbox"/> 1	<input type="checkbox"/> 2	<input type="checkbox"/> 3	<input type="checkbox"/> 4	<input type="checkbox"/> 5	<input type="checkbox"/> n/a
<i>Performance</i>	<input type="checkbox"/> 1	<input type="checkbox"/> 2	<input type="checkbox"/> 3	<input type="checkbox"/> 4	<input type="checkbox"/> 5	<input type="checkbox"/> n/a
<b>6) Design a system, component, or process</b>						
<i>Expectation</i>	<input type="checkbox"/> 1	<input type="checkbox"/> 2	<input type="checkbox"/> 3	<input type="checkbox"/> 4	<input type="checkbox"/> 5	<input type="checkbox"/> n/a
<i>Performance</i>	<input type="checkbox"/> 1	<input type="checkbox"/> 2	<input type="checkbox"/> 3	<input type="checkbox"/> 4	<input type="checkbox"/> 5	<input type="checkbox"/> n/a
<b>7) Acquire basic knowledge in several disciplines to work in a multidisciplinary environment</b>						
<i>Expectation</i>	<input type="checkbox"/> 1	<input type="checkbox"/> 2	<input type="checkbox"/> 3	<input type="checkbox"/> 4	<input type="checkbox"/> 5	<input type="checkbox"/> n/a
<i>Performance</i>	<input type="checkbox"/> 1	<input type="checkbox"/> 2	<input type="checkbox"/> 3	<input type="checkbox"/> 4	<input type="checkbox"/> 5	<input type="checkbox"/> n/a
<b>8) Gain in-depth knowledge of a civil engineering discipline</b>						
<i>Expectation</i>	<input type="checkbox"/> 1	<input type="checkbox"/> 2	<input type="checkbox"/> 3	<input type="checkbox"/> 4	<input type="checkbox"/> 5	<input type="checkbox"/> n/a
<i>Performance</i>	<input type="checkbox"/> 1	<input type="checkbox"/> 2	<input type="checkbox"/> 3	<input type="checkbox"/> 4	<input type="checkbox"/> 5	<input type="checkbox"/> n/a
<b>9) Communicate and present ideas effectively</b>						
<i>Expectation</i>	<input type="checkbox"/> 1	<input type="checkbox"/> 2	<input type="checkbox"/> 3	<input type="checkbox"/> 4	<input type="checkbox"/> 5	<input type="checkbox"/> n/a
<i>Performance</i>	<input type="checkbox"/> 1	<input type="checkbox"/> 2	<input type="checkbox"/> 3	<input type="checkbox"/> 4	<input type="checkbox"/> 5	<input type="checkbox"/> n/a
<b>10) Recognize the need for, and to engage in life-long learning</b>						
<i>Expectation</i>	<input type="checkbox"/> 1	<input type="checkbox"/> 2	<input type="checkbox"/> 3	<input type="checkbox"/> 4	<input type="checkbox"/> 5	<input type="checkbox"/> n/a
<i>Performance</i>	<input type="checkbox"/> 1	<input type="checkbox"/> 2	<input type="checkbox"/> 3	<input type="checkbox"/> 4	<input type="checkbox"/> 5	<input type="checkbox"/> n/a
<b>11) Understand professional and ethical responsibility</b>						
<i>Expectation</i>	<input type="checkbox"/> 1	<input type="checkbox"/> 2	<input type="checkbox"/> 3	<input type="checkbox"/> 4	<input type="checkbox"/> 5	<input type="checkbox"/> n/a
<i>Performance</i>	<input type="checkbox"/> 1	<input type="checkbox"/> 2	<input type="checkbox"/> 3	<input type="checkbox"/> 4	<input type="checkbox"/> 5	<input type="checkbox"/> n/a
<b>12) Stay abreast of contemporary issues</b>						
<i>Expectation</i>	<input type="checkbox"/> 1	<input type="checkbox"/> 2	<input type="checkbox"/> 3	<input type="checkbox"/> 4	<input type="checkbox"/> 5	<input type="checkbox"/> n/a
<i>Performance</i>	<input type="checkbox"/> 1	<input type="checkbox"/> 2	<input type="checkbox"/> 3	<input type="checkbox"/> 4	<input type="checkbox"/> 5	<input type="checkbox"/> n/a

*Please stamp the company chop here:*

**Form 4 – Cont'd**  
(used by Employer)

**Student Name:** \_\_\_\_\_

□ 1	□ 2	□ 3	□ 4	□ 5
<b>Below Expectation</b> The student does not perform the job duties as expected and fails to meet the requirements	<b>Marginally Satisfactory</b> The student performs at an acceptable level and in some occasions fails to meet the requirements	<b>Satisfactory</b> The student consistently performs to a good standard and occasionally exceeds the requirements	<b>Highly competent</b> The student consistently performs to a high standard and often exceeds the requirements	<b>Excellent</b> The student consistently performs to a very high standard and always exceeds the requirements

**8. Are there any other abilities or attributes you believe are important when employing university graduates?**

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**9. What strengths and weaknesses do HKUST engineering students possess?**

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**10. In what area(s) does HKUST need to improve its preparation of graduates for employment?**

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**This is the end of the questionnaire. Thank you very much. We would very much like to hear more of your feedback through a short interview. Please indicate your preference:**

I am happy to be contacted for more information on related matters, and I can be reached by  
Name: \_\_\_\_\_ Email: \_\_\_\_\_ Phone: \_\_\_\_\_

I do not want to be contacted.

***Please stamp the company chop here:***

Please return the completed form to: Ms Rebecca Yau, Department of Civil and Environmental Engineering, The Hong Kong University of Science & Technology, Clear Water Bay, Kowloon, Hong Kong.  
Tel: 2358-7164 Fax: 2358-1534; Email: cerebeca@ust.hk

## Training Report

### Requirement

Please complete the attached **Training Summary (ANNEX)** and attach it to the front of your detailed training report. This will assist the Department in evaluating your performance during the training. The format of the Summary is to follow the requirements of The Model Training Guide for Civil and Environmental Engineering as shown below.

### Contents of detailed training report

The report should be written briefly with technical descriptions of work carried out including the principles involved, and may be illustrated with tables, flow charts, formulae, sketches, diagrams and photographs where pertinent. It should describe the tasks that you have been assigned to do. Tasks should be classified by nature according to investigation, planning, design, construction or research.

The account should be in chronological order and if you have not been totally responsible for an assigned task, the extent of your involvement and responsibility should be clearly stated. You should expand on any special problems encountered, how you have solved them and opportunities for gaining valuable experience.

Where appropriate, some indication of the size, complexity and cost of the works should be given. For a design or construction project, you should describe your role in the development of the project and provide background for any important decisions that you have been responsible or have had some influence. You may add no more than two drawings or sketches besides other documents as appendix if these are necessary to complete and explain the work. The inclusion of annotated photographs showing site works and other relevant locations is encouraged.

Your report should be typed on A4-size paper. It should not exceed 2,500 words, excluding photographs, diagrams and drawings.

### Tips for writing the training report

1. Scope – the Training Report records your training. **It is not a project report or a technical report.** Therefore focus on your job assignment, your involvement in projects, your experience, your duties, etc. **The description of your company and your projects should be kept to a minimum.** Technical details, if any, should be included in the Appendix. There is no need to include calculations or design details.
2. Include a cover page and content page. Print on new A4-sized sheets, not used/recycled paper, **single-sided**. Staple any loose sheets at the top left corner. Do not use a paper clip or spiral-bind the report.
3. Insert the Training Summary immediately after the content page and remember to fill in the first column with Model Training Guide Items.
4. **Boldface headings and sub-headings.** Headings should include, inter-alia, Introduction, Conclusion and Reference.
5. Use past tense for all events that happened during your training. Within a sentence, tenses should be consistent.
6. Check sentence syntax. Check active or passive voice. Check spelling and grammatical mistakes. Improve the style as much as possible. Avoid long, clumsy sentences.

## **Model training guide (itemised) for Civil and Environmental Engineering**

### **Introduction**

Information about the organization: a) size and history. b) management structure and functions. c) communication systems. d) training programmes and career development.

#### **I. Design and associated office experience**

1. Organization of design and associated offices.
2. Programming of design work.
3. Familiarization with standards, codes of practice and design manuals.
4. Examination of site investigation records in deciding outline solutions taking due consideration of possible alternative designs and their costs.
5. Site inspection and survey for design.
6. Site investigation including knowledge of equipment and techniques.
7. Testing of samples to obtain design data and proper use of testing equipment.
8. Feasibility studies including economic considerations.
9. Civil engineering design of permanent and/or temporary works and preparation of drawings.
10. Methods of construction including safety considerations.
11. Taking off quantities and preparation of bills of quantities to standard methods of measurement.
12. Estimating costs.
13. Knowledge of conditions of contract and specifications.
14. Tender preparation and evaluation.

#### **II. Site experience**

1. Planning and programming of construction.
2. Resource planning, allocation and control.
3. Methods of construction and their proper sequence, including design of temporary works.
4. Setting out of works and knowledge of surveying instruments.
5. Mechanical plant including knowledge of use, capacity, output and cost.
6. Materials including their cost, storage and handling problems, quality and other characteristics.
7. Testing materials.
8. Measurement of works.
9. Valuation of variations including variation orders.
10. Interim statements and certificates.
11. Site safety.
12. Working conditions and welfare.
13. Liaison with other organizations and the public. Site administration including control and management of subcontracts.
14. Site records and reports.

#### **III. General**

1. Staff relationship, human resource planning, motivation and enforcement.
2. Professional ethics and responsibility.
3. Statutory requirements, laws and ordinances affecting project implementation.
4. Report writing and presentation.
5. Financial forecasting, budgeting and cost control.
6. Conditions of contract, their compliance and limitations.
7. Appreciation of computer techniques and their limitations.

**Ensure that any company information/material included in the report is approved by your employer.**

**TRAINING SUMMARY (Sample)**  
for the period starting June 2022

Category of work:

- Civil     Structural     Geotechnical     Transport     Construction   
 Environmental     Others  \_\_\_\_\_(please state)

Model Training Guide Items.	Give brief description of each principal type of work you were engaged in during the period.	Weekly periods Give commencement and completion dates
II 9  II 12	For the month of June 2021  Engineering design of footbridge for Contract No. HY/1/02 Location: Mongkok, Kowloon.  Preparation of bills and quantities including costing for work on footbridge under Contract No. HY/1/02	
	For the month of July 2022	
	For the month of August 2022	