



**ASSESSMENT FORM FOR INDUSTRIAL TRAINING  
FACULTY OF CIVIL ENGINEERING  
UNIVERSITI TEKNOLOGI MARA (UiTM)**

INDUSTRY SUPERVISOR

Student's Name \_\_\_\_\_  
 Student's Number \_\_\_\_\_  
 Programme **EC220 Bachelor of Engineering (Hons.) Civil** \_\_\_\_\_  
 Date \_\_\_\_\_

CIDB Green Card No. \_\_\_\_\_  
 Validity Date \_\_\_\_\_

**PLEASE TICK ( / ) WHICHEVER APPLICABLE**

ABOUT THE COMPANY

**1. Area of Responsibility**

Consultant	<input type="checkbox"/>
Project Management Consultant	<input type="checkbox"/>
Developer	<input type="checkbox"/>
Government / Semi Government	<input type="checkbox"/>
Local Authority	<input type="checkbox"/>
Contractor/Sub-Contractor	<input type="checkbox"/>

**2. Student's Supervisor**

Professional Engineer	<input type="checkbox"/>
Engineer	<input type="checkbox"/>
Technical Assisstant	<input type="checkbox"/>
Technicians	<input type="checkbox"/>
Others (please state)	_____

**3. No. of Professional Engineers in the Company**

< 5	<input type="checkbox"/>
5 to 10	<input type="checkbox"/>
> 10	<input type="checkbox"/>

**4. Type of Company**

Bumiputera	<input type="checkbox"/>
Non-Bumiputera	<input type="checkbox"/>
International	<input type="checkbox"/>
Others (please state)	_____

The following statements are the graduate attributes that are expected for the students to acquire upon graduation.

ASSESSMENT

**1. Thinking Skill**

Please circle on the appropriate measurement for the attribute based on 5-point scale						
Weightage	1	2	3	4	5	
a) Apply basic engineering fundamentals and specialisation to the solution of complex engineering problems when dealing with working environment (CO1) (PO1)	5	Unable to apply theoretical engineering fundamentals and specialisation with practical working environment	Able to apply minimal theoretical engineering fundamentals and specialisation with practical working environment	Able to apply some of the theoretical engineering fundamentals and specialisation with practical working environment	Able to apply most of the theoretical engineering fundamentals and specialisation with practical working environment	Able to integrate the theoretical engineering fundamentals and specialisation with practical working environment
b) Evaluate complex engineering problems using first principles of mathematics, natural sciences and engineering sciences for civil engineering (CO2) (PO2)	4	Unable to evaluate tasks/issues related to complex engineering problems.	Able to understand the tasks/issues related to complex engineering problems.	Able to examine tasks/issues by demonstrating some solutions towards solving complex engineering problems.	Able to analyse tasks/issues by demonstrating some solutions towards solving complex engineering problems.	Able to evaluate tasks/issues by demonstrating optimum solutions towards solving complex engineering problems.
	2	Unable to express and give relevant views related to the given task.	Able to express and give inaccurate views related to the given task.	Able to express and give general views related to the given task.	Able to express and give specific views related to the given task.	Able to express comprehensively and critically the specific views related to the given task.

b) Demonstrate professional ethics and responsibilities and norms of engineering practice ethics in working environment related to civil engineering practices (CO5) (PO8)	Weightage	1	2	3	4	5
	2	Unable to demonstrate professional ethics and responsibilities in engineering practices	Able to demonstrate poor professional ethics and responsibilities in engineering practices	Able to demonstrate adequate professional ethics and responsibilities in engineering practices	Able to demonstrate good professional ethics and responsibilities in engineering practices	Able to demonstrate a holistic professional ethics and responsibilities in engineering practices

c) Demonstrate professional reasoning to assess societal, health, safety, legal and cultural issues relevant to professional engineering practice (CO4) (PO6)	Weightage	1	2	3	4	5
	2	Unable to recognize on the needs of societal, health, safety, legal and cultural issues in regards to professional engineering practices.	Able to demonstrate awareness on the needs of societal, health, safety, legal and cultural issues in regards to professional engineering practices .	Able to demonstrate understanding the contextual knowledge related to the societal, health, safety, legal and cultural issues in regards to professional engineering practices .	Able to demonstrate reasoning informed by contextual to analyse the societal, health, safety, legal and cultural issues in regards to professional engineering practices .	Able to demonstrate reasoning informed by contextual knowledge to evaluate the societal, health, safety, legal and cultural issues in regards to professional engineering practices.

### 3. Working Ability

a) Apply design principles and techniques and develop design solution of civil engineering problems (CO3) (PO3)	Weightage	1	2	3	4	5
	5	Unable to apply design principles and techniques for complex engineering problems	Able to apply minimal design principles and techniques for complex engineering problems	Able to apply adequate design principles and techniques for complex engineering problems	Able to apply appropriate design principles and techniques for complex engineering problems	Able to apply optimum design principles and techniques for complex engineering problems

### 4. Life and Career Skills

a) Communicate effectively while dealing with people of various background and status (CO6) (PO10)	Weightage	1	2	3	4	5
	2	Unable to communicate with people using verbal and writing skills in Bahasa Melayu / English.	Able to communicate ineffectively with people using verbal and writing skills in Bahasa Melayu / English.	Able to communicate and deliver moderately with people using verbal and writing skills in Bahasa Melayu / English.	Able to communicate clearly with people using verbal and writing skills in Bahasa Melayu / English.	Able to communicate clearly and effectively with people using verbal and writing (well-structured) skills in Bahasa Melayu / English.
b) Evaluate consequent responsibilities relevant to professional engineering practice and solutions to complex engineering problem (CO4) (PO6)	Weightage	1	2	3	4	5
	2	Unable to understand the consequent responsibilities relevant to professional engineering practice and solutions to complex engineering problem	Able to understand the consequent responsibilities relevant to professional engineering practice and solutions to complex engineering problem	Able to comprehend consequent responsibilities relevant to professional engineering practice and solutions to complex engineering problem	Able to analyse the consequent responsibilities relevant to professional engineering practice and solutions to complex engineering problem	Able to evaluate the consequent responsibilities relevant to professional engineering practice and solutions to complex engineering problem

c) Evaluate complex engineering problems reaching substantial conclusions using basic principle of civil engineering (CO2) (PO2)	Weightage	1	2	3	4	5
	4	Unable to analyse complex engineering problems and cannot provide conclusions.	Able to analyse complex engineering problems but not reaching substantial conclusions.	Able to analyse complex engineering problems reaching acceptable conclusions.	Able to analyse complex engineering problems reaching acceptable conclusions and justification	Able to evaluate complex engineering problems reaching substantial conclusions with justification.

d) Develop design solutions for complex engineering problems and design systems, components or processes that meet specified needs with appropriate consideration for public health and safety, cultural, societal, and environmental considerations (CO3) (PO3)	Weightage	1	2	3	4	5
	2	Unable to develop design solutions for complex engineering problems and design systems, components or processes that meet specified needs with appropriate considerations.	Able to develop design solutions for complex engineering problems and design systems, components or processes that meet specified needs with inappropriate considerations.	Able to develop adequate design solutions for complex engineering problems and design systems, components or processes that meet specified needs with appropriate considerations.	Able to develop acceptable design solutions for complex engineering problems and design systems, components or processes that meet specified needs with appropriate considerations.	Able to develop comprehensive design solutions for complex engineering problems and design systems, components or processes that meet specified needs with appropriate considerations.

**ATTENDANCE**

Number of days \_\_\_\_\_

**EXPERIENCE ACQUIRED DURING TRAINING**

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**SUGGESTIONS FOR IMPROVEMENT (CQI)**

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Signature : \_\_\_\_\_  
(Supervisor / Lecturer)

Name : \_\_\_\_\_  
(Official Stamp)

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

The following information is for the Faculty reference only

Programme Outcomes (PO)

PO	Domain	Statement
PO1	Cognitive	Engineering Knowledge
PO2	Cognitive	Problem Analysis
PO3	Cognitive	Design/Development of solutions
PO4	Psychomot	Investigation
PO5	Cognitive	Modern Tool Usage
PO6	Cognitive	The engineer and society
PO7	Cognitive	Environment and sustainability
PO8	Cognitive	Ethics
PO9	Affective	Individual and team work
PO10	Affective	Communication
PO11	Cognitive	Project Management and finance
PO12	Affective	Lifelong learning

Complex Engineering Activities (EA)

EA	Statement
EA1	Range of resources
EA2	Level of interactions
EA3	Innovation
EA4	Consequences to society and environment
EA5	Familiarity

Complex Engineering Problems (WP)

WP	Statement
WP1	Depth of knowledge
WP2	Range of conflicting requirements
WP3	Depth of analysis required
WP4	Familiarity of issues
WP5	Extent of applicable codes
WP6	Extent of stakeholder involvement & conflicting requirements
WP7	Interdependence

Knowledge Profile (WK)

WK	Statement
WK1	Natural sciences
WK2	Mathematics
WK3	Engineering fundamentals
WK4	Specialist knowledge
WK5	Engineering design
WK6	Engineering practice
WK7	Comprehension
WK8	Research literature