

# 2008 HIGHER SCHOOL CERTIFICATE EXAMINATION

# Industrial Technology Building and Construction Industries

#### **General Instructions**

- Reading time 5 minutes
- Working time  $1\frac{1}{2}$  hours
- Write using black or blue pen
- Draw diagrams using pencil
- Board-approved calculators may be used
- Write your Centre Number and Student Number at the top of this page and pages 5, 9, 13 and 17

#### Total marks - 100

Section I Pages 2–12

#### 60 marks

- Attempt Questions 1–3
- Allow about 55 minutes for this section

Section II Pages 13–19

#### 40 marks

- Attempt Questions 4–5
- Allow about 35 minutes for this section

#### **Section I**

60 marks Attempt Questions 1–3 Allow about 55 minutes for this section

Answer the questions in the spaces provided.

Marks

Use the following information to answer Questions 1 and 2.

IND-TECH is a company in the building and construction industry seeking to increase its market share by establishing an overseas facility.

#### **Question 1** (20 marks)

(a)	Identify TWO sources of finance that IND-TECH might use to fund the establishment of the overseas facility.	2
(b)	How can IND-TECH locate and evaluate emerging technology?	3

Question 1 continues on page 3

Question 1 continues on page 4

(e)	IND-TECH has identified quality control as a potential area of concern when overseas operations commence.	7
	Evaluate strategies that can be implemented to establish and monitor the required standard of quality.	

### **End of Question 1**

2008 HIGHER SCHOOL CERTIFICATE EXAMINATION Industrial Technology Building and Construction							Ce	entre	Nun	nber
	lustries									
Sect	ection I (continued)  Student N									ıber
									Ma	arks
Que	estion 2 (20 marks)									
(a)	Outline TWO issues that may be included in a (EIS).	an <i>Env</i>	ironn	nenta	ıl Imp	oact ,	Stater	nent		2
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(b)	Why is it important to have an effective occupolicy in place when the new facility is estab	-		ealth	and	safe	ety (O	HS)		3
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Question 2 continues on page 6

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**Question 2 continues on page 7** 

(e)	IND-TECH proposes to relocate some employees to the overseas facility to	7
	assist in setting it up and training staff.	
	Analyse this proposal from the perspective of both IND-TECH and the employees who would be relocating.	

**End of Question 2** 

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2008 HIGHER SCHOOL CERTIFICATE EXAMINATION Industrial Technology Building and Construction Industries Section I (continued)							C	entre	e Nu	mber
				•		•	Stı	ıden	t Nu	mber
Que	estion 3 (20 marks)								M	arks
(a)	Name TWO software applications that can be	used	to g	raph	prod	uctio	on co	sts.		2
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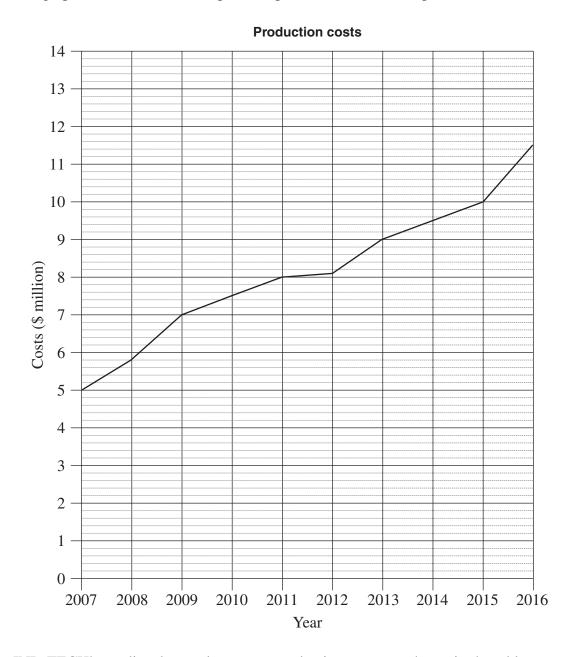
Question 3 continues on page 10

189b - 9 -

#### Question 3 (continued)

Use the following information to answer part (b).

The graph shows IND-TECH's past and predicted annual local production costs.



IND-TECH's predicted annual overseas production costs are shown in the table.

Year	2009	2010	2011	2012	2013	2014	2015	2016
Production costs (\$ million)	10.0	8.5	8.0	6.0	6.5	7.0	7.5	7.8

Question 3 continues on page 11

Questi	on 3 (	(continued)	Marks
(b)	(i)	Graph the predicted annual overseas production costs on the grid on the previous page.	2
	(ii)	When should overseas production costs match local production costs?	1
	(iii)	Describe the trends in the graphs for local and overseas production costs.	4
	(iv)	Outline factors IND-TECH would need to consider when estimating predicted production costs.	4

**Question 3 continues on page 12** 

(c)	IND-TECH intends to produce an operations manual for the overseas facility using a combination of text, graphics, photographs and charts.	7
	Explain how the different forms of presenting the information would support the purpose of the operations manual.	

## **End of Question 3**

Industrial Technology Building and Construction Industries					C	entre	e Nu	mber		
Sect	Section II Student I									mber
	arks mpt Questions 4–5 w about 35 minutes for this section									
Ansv	ver the questions in the spaces provided.									
Ques	stion 4 (20 marks)								M	arks
(a)	Give TWO reasons why terrace houses are a Australia.	found	in	urba	n rat	ther	than	rural	l	2
(b)	Using examples, explain the impact that local on construction projects.	govei	rnme	ent re	egula		s can	have		3
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Question 4 continues on page 14

190 – 13 –

Que	estion 4 (continued)	Marks
(c)	Describe methods a builder can use to secure a construction site.	4
(d)	Identify and describe the operation of a tool that can be used to determine and transfer levels on a construction site.	4

**Question 4 continues on page 15** 

(e)	Home owners wishing to update their homes often have to decide whether to renovate or to knock down and rebuild.	7
	Evaluate each of these options.	

**End of Question 4** 

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Industrial Technology Building and Construction Industries						Centr	re Nui	mber				
	tion II (continued)		<u> </u>			Studer	ıt Nu	mber				
Que	estion 5 (20 marks)						M	arks				
(a)	List TWO types of drawings that are gen development application with local governme		quire	d wh	ien l	odging	a	2				
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(b)	Reducing water consumption is becoming a p	riority for	· loca	ıl gov	ernn	nent.		3				
	Outline THREE strategies that home owner consumption.	rs can us	e to	redu	ce th	eir wate	er					
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**Question 5 continues on page 18** 

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Ques	stion 5 (continued)	Marks
(c)	Evaluate a range of flooring materials that are in common use in domestic dwellings.	4
(d)	Justify the use of corrugated steel as a roofing material on commercial buildings.	4

**Question 5 continues on page 19** 

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