

# ISCA Infrastructure & Project Finance Qualification

**Project Lifecycle** 

**Scope of Content** 

Updated: 11 July 2019

### 1. Scope of content

	Detailed Topics	Learning Outcomes	Proficiency Level
Торі	ic 1: Project Development		,
1.1.	Overview of th infrastructure sector	Candidates will be able to:	Foundation
a.	Introduction tinfrastructure	(1) Explain the importance are benefits of developing infrastructure.	
b.	Types of infrastructur projects	(2) Discuss the need finfrastructure in the globa	or al,
C.	Need for infrastructure	Asian and Singapore context (3) Recognise the characteristic of an infrastructure project. (4) State the major sectors infrastructure.	cs
1.2.	Project planning an preparation (government		Foundation
	view)	(1) Summarise the stages in typical infrastructure proje	
a. b. c.	Project lifecycle Project planning process Project preparatio process	outputs of planning ar preparation stages.  (3) Recognise the key activities	ne
1.3.	Studies and tools of project development		Foundation
		(1) Explain the purpose conducting an option analys	of

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Detailed Topics			Learning Outcomes	Proficiency Level
a.	Introduction to option		during the planning and	
	analysis		preparation stages.	
b.	Feasibility study and	(2)	Summarise the key criteria	
	business case		that governments consider	
c.	Multi-criteria analysis		during feasibility assessment.	
	(MCA)	(3)	Recognise the different	
d.	Cost benefit analysis		project development tools.	
	(CBA)	(4)	State the key components	
e.	Value for money analysis		found in a multi-criteria	
	(VFM)		analysis, cost benefit analysis	
f.	Fiscal planning for		and value for money analysis.	
	infrastructure	(5)	Explain the purpose of	
			applying each project	
			development tool.	
		(6)	Interpret the outputs of project	
		/	development tools.	
		(7)	Summarise the purpose of an	
		e e e e e e e e e e e e e e e e e e e	infrastructure masterplan.	
		(8)	Explain the role of the	
			budgeting process for	
			infrastructure development.	

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Detailed Topics			Learning Outcomes	Proficiency Level
1.4.	Procurement methods	Can	didates will be able to:	Foundation
a.	Types of procurement method	(1)	State the various procurement methods used	
b.	Principles and		for infrastructure projects.	
	characteristics of different	(2)	Summarise the	
	procurement methods		characteristics of each	
C.	Key considerations for		procurement method.	
	selecting a procurement	(3)	Explain the level of risk	
	method		transferring or sharing	
			between the government and	
			the private sector under each	
			procurement method.	
		(4)	Summarise the concept of	
			Public-Private Partnership	
		/	(PPP) and its rationale.	
		<b>(</b> 5)	Summarise merits of PPP for	
			public sector and private	
			sector.	
		(6)	Discuss the key commercial	
			principles considered in a	
			PPP project.	
		(7)	State the steps in the	
			procurement selection	
			process.	

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	Detailed Topics	Learning Outcomes	Proficiency Level
1.5.	Stakeholder engagement	Candidates will be able to:	Foundation
a. b.	Stakeholders' roles and objectives Stakeholder engagement	<ol> <li>Recognise the stakeholders of an infrastructure project.</li> <li>Summarise roles of various stakeholders in the project.</li> <li>State the objectives and interest that different stakeholders have for their involvement in the projects.</li> <li>Explain the importance of a well-structured market engagement process.</li> </ol>	
1.6.	Private sector investment considerations	Candidates will be able to:	Foundation
a.	Overview of the project selection process  Activities of private sector during the project selection process	<ul> <li>(1) Discuss private sector investment considerations in an infrastructure project.</li> <li>(2) Recognise the stages in the private sector's investment framework and state the expected outcome at the end of each stage.</li> <li>(3) Summarise the investment criteria that the private sector consider during project selection process.</li> </ul>	

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Detailed Topics			Learning Outcomes			Proficiency Level			
1.7.	Project financing	costing	and	Candidates will be able to:			Foundation		
				(1)	State	the	hi	igh-level	
a.	Composition	on of proj	ect cost		compon	ents of p	orojec	t cost.	
b.	Elements	of	project	(2)	Explain	the in	nporta	ance of	
	financing				accurate	estim	ation	of the	
					total pro	ject cos	t.		
				(3)	Describe	e the va	alue f	low and	
					cash flow	v strean	ns in a	project.	
				(4)	Define k	ey aspe	ects o	f project	
					financing	g and t	he di	fference	
					between	full rec	ourse	, limited	
					recourse	and	non-r	ecourse	
					financing	g.			
				(5)	Recogni	se diffe	erent	sources	
				/	for finan	cing a p	roject	•	
Торі	ic 2: Procu	rement F	Processe	s					
2.1	Overview processes	•	urement	Can	didates w	ill be ab	le to:		Foundation
	p			(1)	Describe	e the m	nain t	vpes of	
					procurer				
				(2)	Discuss	the cons	sidera	tions for	
					designin	g a	proc	urement	
					process				
				(3)	Identify	the 10 k	key st	eps in a	
					two-stag	e tende	r proc	ess.	

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Detailed Topics			Learning Outcomes	Proficiency Level
2.2	Expressions of interest (EOI)	Can	didates will be able to:	Foundation
		(1)	Discuss the key steps in the	
a.	Request for EOI issued		EOI phase.	
b.	EOI submission	(2)	Understand the key contents	
c.	EOI evaluation		in a request for EOI	
d.	Shortlisting		document.	
		(3)	Describe the key	
			considerations for EOI	
			evaluation, including the	
			evaluation criteria.	
		(4)	Understand the	
			considerations for shortlisting	
			tenderers.	
2.3	Requests for tenders (RFT)	Can	didates will be able to:	Foundation
a.	Request for tenders	(1)	Discuss the key steps in the	
b.	Tender submission		RFT phase.	
c.	Tender evaluation	(2)	Understand the key contents	
d.	Preferred tenderer advised		in a RFT document.	
		(3)	Discuss the key issues during	
			tender submission both from	
	*		the public and private	
			perspective.	
		(4)	Describe the key	
			considerations for tender	
			evaluation, including the	
			evaluation criteria.	
2.4	Negotiation and close	Can	didates will be able to:	Foundation
a.	Contractual close			
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	Detailed Topics	Learning Outcomes	Proficiency Level
b.	Financial close	(1) Discuss the key steps	
		required from negotiation to	
		financial close.	
		(2) Understand the key issues in	
		contractual close and	
		financial close.	
2.5	Other types of procurement	Candidates will be able to:	Foundation
	processes		
		Discuss the other main types of	
a.	Single-stage tender	procurement processes and their	
	process	key benefits and risks.	
b.	Unsolicited proposals		
2.6	Miscellaneous	Candidates will be able to:	Foundation
cons	siderations		
		Discuss the other considerations	
		associated with a PPP procurement	
	/	process.	

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