

ASSESSMENT MAPPING

KEY: WQ = Written Question | PRT = Practical Research Task | R = Report

ELEMENTS AND PERFORMANCE CRITERIA

ELEMENT	PERFORMANCE CRITERIA	ASSESSMENT ACTIVITY
1. Research system requirements	1.1 Lead team to analyse functional and non-functional aspects of current organisational systems	PRT A 1.
	1.2 Seek information regarding current systems from a range of personnel within the organisation	PRT A 2.
	1.3 Determine system Integrity requirements in consultation with relevant personnel and colleagues	PRT A 3.
2. Design blockchain solution	2.1 Investigate the foundations of Ownership in the context of a blockchain	PRT A 4(a)
	2.2 Determine unique identification of ownership and restrict the access and authorisation of ownership transfer to the lawful owner.	PRT A 4(b)
	2.3 Select strategies to identify and compare transaction data uniquely and quickly without comparing their content	PRT A 4(c)
	2.4 Select strategies to monitor changes to data that is supposed to remain unchanged	PRT A 4(d)
	2.5 Develop strategies for peer consensus to build trust into the Blockchain	PRT A 4(e)
	2.6 Work with network operators to analyse the potential impact of computational Power requirements on the blockchain	PRT A 5
3. Establish potential for disintermediation	3.1 Consult with relevant stakeholders to identify intermediaries and evaluate their relevance within the blockchain ecosystem	PRT B 1.

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	3.2 Lead team to identify ways to utilise blockchain to disintermediate intermediaries	PRT B 2.
4. Establish limitations	4.1 Lead team to analyse the technical and non-technical aspects of blockchain to determine limitations for application	R 1(a)
	4.2 Report on limitations and recommend strategies to address identified limitations	R 1(b)
5. Establish user value	5.1 Work with relevant stakeholders to assess the value added by using a peer-to-peer system over a centralised system	R 2(a)
	5.2 Consult with relevant stakeholders to clarify the application potential of a peer to peer system built on a blockchain	R 2(b)
	5.3 Document and make recommendations for consideration to senior managers	R 2(a,b)
6. Investigate opportunities for innovation	6.1 Lead team to identify opportunities for application innovation created by a peer to peer network	R 2(b)
	6.2 Lead team to investigate opportunities for process innovation by applying generic application patterns of blockchain and peer-to-peer systems	R 2(b)

PERFORMANCE EVIDENCE

REQUIRED EVIDENCE	ASSESSMENT ACTIVITY
<ul style="list-style-type: none"> Apply the principles of blockchain to peer to peer networks, to create user value, application and process innovation 	PRT A (1-5)
<ul style="list-style-type: none"> Apply the tenets of blockchain and peer to peer networks to enable disintermediation of intermediaries 	PRT B (1-2)
<ul style="list-style-type: none"> Use critical thinking skills to evaluate information from a range of source theorists 	WQ 1-10, PRT A & B, R
<ul style="list-style-type: none"> Communicate effectively with people from diverse roles within an organization 	PRT A & B, R
<p>If a specific volume or frequency is not stated, then evidence must be provided at least once.</p>	

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KNOWLEDGE EVIDENCE

REQUIRED EVIDENCE	ASSESSMENT ACTIVITY
<ul style="list-style-type: none"> • Explain terminology and technical foundations of Blockchain 	WQ 1
<ul style="list-style-type: none"> • Explain advantages and disadvantages of Distributed Systems 	WQ 2
<ul style="list-style-type: none"> • Explain decentralised networks to identify the core problem to be solved 	WQ 3
<ul style="list-style-type: none"> • Explain the common terms used in a blockchain ecosystem 	WQ 4
<ul style="list-style-type: none"> • Describe functional and non-functional aspects of organisational systems 	WQ 5
<ul style="list-style-type: none"> • Explain the concept and benefits of disintermediation 	WQ 6
<ul style="list-style-type: none"> • Describe consensus and trust in the context of a blockchain decentralised network 	WQ 7
<ul style="list-style-type: none"> • Explain the tenets of a blockchain and their application to organisational systems and business models 	WQ 8
<ul style="list-style-type: none"> • Explain how blockchain technologies can create value 	WQ 8
<ul style="list-style-type: none"> • Describe opportunities for innovation through the application of generic patterns of a blockchain 	WQ 9, 10