

Unit Title:	Investigating and Defining Customer Requirements for ICT Systems
OCR unit number:	228
Level:	4
Credit value:	15
Guided learning hours:	90
Unit reference number:	R/602/1772

Candidates undertaking this unit must complete real work activities in a work environment. Simulation is only allowed in exceptional circumstances (please refer to the centre handbook for further details).

Unit aim and purpose

This unit provides learners with a thorough grounding in requirements elicitation and the creation of specifications. It provides an overview of current methodologies used to capture customer needs and produce accurate models of needs within known constraints. It then gives the learner the opportunity to apply these models in a real world environment.

Learning Outcomes		Assessment Criteria	Knowledge, understanding and skills
Learning Outo	hing Outcomes // Learner will: Control the investigation of existing and proposed systems and processes	Assessment Criteria The Learner can: 1.1 Select and use the investigative methods which will elicit relevant information about existing and proposed systems and processes 1.2 Create the documentation required to record the results of investigations 1.3 Ensure that investigative methods are applied	 Knowledge, understanding and skills Candidates must: understand systems development lifecycle e.g. Waterfall, Spiral, unified process, Agile know how to create project documentation, feasibility study requirements specification, functional and non-functional know how to elicit information such as surveys, interviews, observation use investigative techniques such as participatory and softsystems methods understand quality processes, codewalkthroughs, project reviews understand the need to ensure confidentiality of customer information and associated legislation
		 correctly and all relevant information is recorded using standard documentation 1.4 Ensure that the confidentiality of customer information is preserved 1.5 Provide advice and guidance to colleagues on investigation and analysis of information 	

2 Analyse information	to 2.1	Explain the types of	Candidates must:
identify needs and		defect, and their causes	 understand issues
constraints		which can arise in	relating to transpositions
	2.2	Describe methods of	of data, mistranslation of
	2.2	minimising defects in	functional areas, jargon
		information	words and correct use of
	23	Explain how customer	formal language, role of
	2.0	needs and constraints	data dictionary and
		can affect the design of	project glossaries
		an ICT system	 understand stakeholder
	2.4	Analyse information to	management and quality
		identify customer needs	assurance processes,
		and priorities for:	triangulation of data
		 data to be stored 	detween stakenoider
		and processed	in requirements capture
		 tunctionality in terms of inputs 	 understand alignment of
		processes and	customer needs with
		outputs	project, classification of
		 capacity including 	requirements (essential,
		numbers of users,	desirable, hoped-for)
		throughput, and	 understand the danger of
		data storage	privileging user
	2.5	Analyse information to	problem investigation and
		identify customer	that users may not be the
			best judge of an optimal
	2.6	Verify that identified	solution
		constraints meet	 understand architecture
		customer requirements	(systems, knowledge and
		•	data), load balancing,
			storage planning and
			 know how to undertake
			 analysis of requirements
			and systems design,
			UML, flowcharting,
			process charts, control
			charts
			 know how to undertake
			testing including test-
			driven development and
			understand project completion_bandover
			rollout planning

Assessment

Candidates undertaking this unit must complete real work activities in order to produce evidence to demonstrate they are occupationally competent. Real work is where the candidate is engaged in activities that contribute to the aims of the organisation by whom they are employed, for example in paid employment or working in a voluntary capacity.

Simulation is only allowed for aspects of units when a candidate is required to complete a work activity that does not occur on a regular basis and therefore opportunities to complete a particular work activity do not easily arise. When simulation is used, assessors must be confident that the simulation replicates the workplace to such an extent that candidates will be able to fully transfer their occupational competence to the workplace and real situations.

Internal quality assurance personnel must agree the use of simulated activities before they take place and must sample all evidence produced through simulated activities.

It is the assessor's role to satisfy themselves that evidence is available for all performance, knowledge and evidence requirements before they can decide that a candidate has finished a unit. Where performance and knowledge requirements allow evidence to be generated by other methods, for example by questioning the candidate, assessors must be satisfied that the candidate will be competent under these conditions or in these types of situations in the workplace in the future. Evidence of questions must include a written account of the question and the candidate's response. Observations and/or witness testimonies must be detailed and put the evidence into context ie the purpose of the work etc.

All of the assessment criteria in the unit must be achieved and clearly evidenced in the submitted work, which is externally assessed by OCR.

Evidence for the knowledge must be explicitly presented and not implied through other forms of evidence.

Evidence requirements

All aspects of the assessment criteria must be covered and evidence must be available that shows where and how the assessment criteria have been achieved.

Assessment Criterion 1

Candidates should produce a portfolio of evidence including:

- full documentation and other evidence of achieving assessment criteria by undertaking a significant investigation into the requirements for a substantial system.
- evidence of using standard organisational processes and document templates for completing the elicitation exercise
- evidence of working as part of a team and providing guidance to others on a number of aspects of systems investigations

Assessment Criterion 2

Candidate should produce the following evidence:

- A presentation explaining common defects in information, including incorrect financial and other numerical data, misunderstanding between functional areas and failure of communications channels to keep all team members adequately informed
- A portfolio of evidence where the learner demonstrates their skills in creating specifications, business, technical (functional and non-functional) and testing
- In particular candidates should demonstrate that using the data they have collected they can describe
 - \circ The full range of data to be stored and processed
 - o Describe functionality in terms of inputs, processes and outputs

- Explain the storage and processing capacity taking account of numbers of users, data throughput, and data storage
- The portfolio will need to provide evidence that the solution identified takes account of the needs, priorities and constraints indicated by the analysis of customer requirements
- A sign-off from project sponsor and project board as well as customer lead stakeholder

Guidance on assessment and evidence requirements

Evidence for this unit can only be achieved through actual work in a work environment, simulation is not permissible.

Assessment evidence should be Learning Outcome-based and be offered in the form of assignments, project-portfolios, presentations and reflective accounts.

Where group work/activities contribute to assessment evidence the individual contribution of each candidate must be clearly identified.

All evidence must be available to review. Candidates should use real situations or observations from work placement, care should be taken to ensure that the record of observation accurately reflects the candidate's performance, this should be signed, dated, and included in the evidence. It is best practice to record another individual's perspective of how a practical activity was carried out. Centres may wish to use a witness statement as a record of observation, this should be signed and dated and included in the evidence.

You should refer to the 'Admin Guide: Vocational Qualifications (A850)' for Notes on Preventing Computer-Assisted Malpractice.

Additional information

For further information regarding administration for this qualification, please refer to the OCR document '*Admin Guide: Vocational Qualifications'* (*A850*) on the OCR website <u>www.ocr.org.uk</u>.