Systems and Principles Unit Syllabus

Level 3 Requirements analysis and systems specifications

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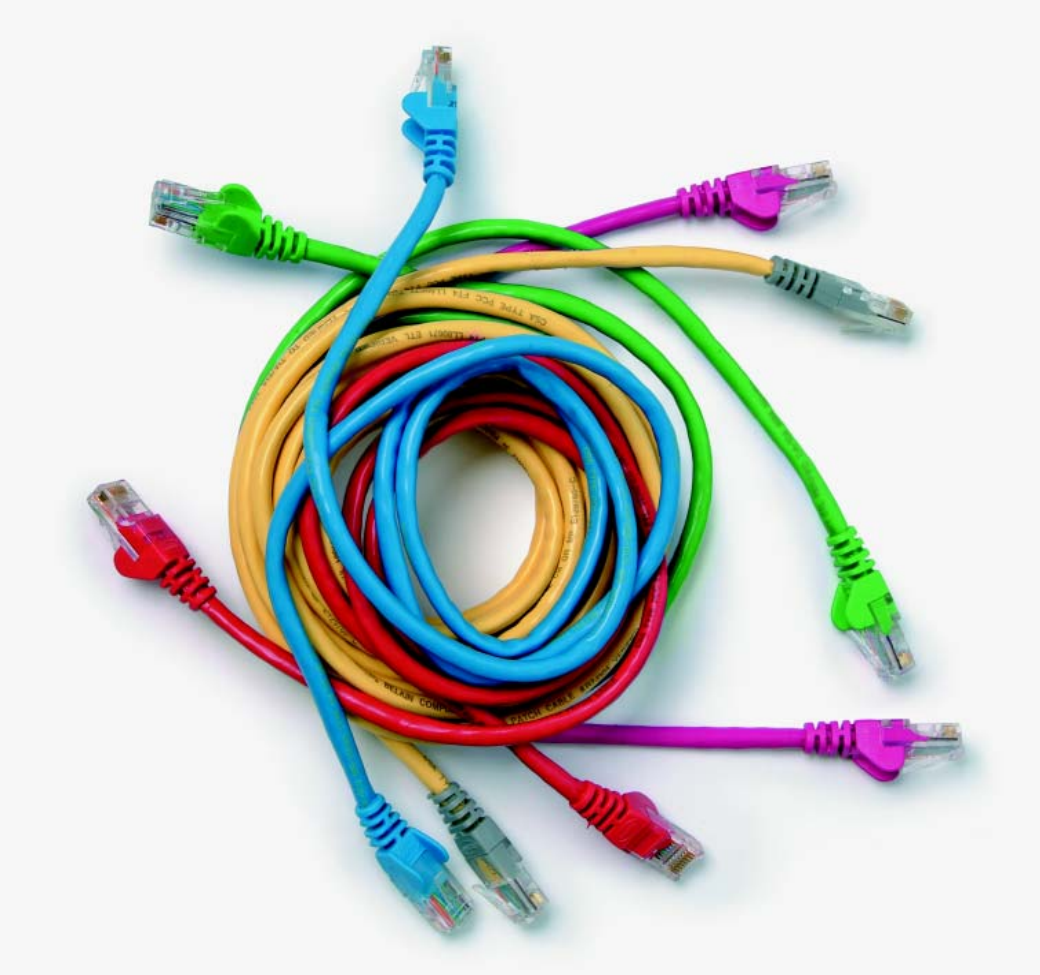

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Unit 366 Requirements analysis and systems specifications

Syllabus Overview

Unit accreditation number **D/501/4006**

Credit value **16**

Rationale

The aim of this unit is provide candidates with an advanced understanding of some of the important elements involved in systems design, especially the idea of following a Systems Development Life Cycle (SDLC). It also allows them to follow a prescribed methodology such as Yourdon or SSADM , it also allows them to competently and professionally work with a scenario to identify the best possible IT solution to meet their needs. Candidates will develop a more in depth understanding of advanced systems investigation, Analysis and design, this will also enable them to work in a supervisory role performing advanced tasks with high degree of competence, using problem solving skills and giving direction to others.

Learning outcomes

There are four learning outcomes to this unit. The learner will be able to:

1. Plan for the identification of customer requirements
2. Establish customer requirements
3. Produce logical and physical design specifications
4. Identify implementation and maintenance procedures

Guided learning hours

It is recommended that 65 hours should be allocated for this unit. This may be on a full time or part time basis.

Connections with other qualifications

This unit is linked to the Professional Competence NOS

Support of the unit by a sector or other appropriate body

This unit is endorsed by e-skills UK.

Assessment and grading

Assessment will be by means of a **set assignment** covering both practical activities and underpinning knowledge.

Unit 366 Requirements analysis and systems specifications

Outcome 1 Plan for the identification of customer requirements

Assessment Criteria
The learner can:

1 interpret project briefs to identify the scope and objectives of investigations and analyses

2 select investigative methods to extract the information to identify customer requirements

3 produce a plan for carrying out investigations and analyses using most appropriate tools

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Outcome 2 Establish customer requirements

Assessment Criteria
The learner can:

1 carry out investigations to meet agreed plans

2 use investigative methods to obtain information on system inputs, outputs, processes, user interfaces and frequency

3 interpret and draw document analysis grids

4 identify constraints

5 obtain approval/sign off

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Outcome 3 Produce logical and physical design specifications

Assessment Criteria
The learner can:

1 carry out analyses to meet agreed plans

2 identify logical functional and data requirements

3 create a data dictionary

4 select and produce suitable diagrammatical representations for modelling

5 create and extract information from decision tables/trees

6 specify capacity requirements

7 check for defects in the requirements definition

8 produce hardware and software specifications

9 produce specifications for input and output data and security requirements

10 obtain approval/sign off

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Outcome 4 Identify implementation and maintenance procedures

Assessment Criteria
The learner can:

1 describe the main stages of system implementation

2 describe the purpose and methods of testing new systems

3 describe training methods and techniques

4 describe methods used to convert manual files and the main problems associated with file conversion

5 describe the typical documentation provided on completion of implementation

6 explain the purpose of version control procedures when developing, amending and maintaining software and documentation

7 state that maintenance is the process of responding to a user request for change plus correction of errors.

Unit record sheet

Use this form to track your progress through this unit.

Tick the boxes when you have covered each outcome. When they are all ticked, you are ready to be assessed.

Outcome		✓	Date
1	**Plan for identification of customer requirements**	☐	
2	**Establish customer requirements**	☐	
3	**Produce logical and physical design specifications**	☐	
4	**Identify implementation and maintenance procedures**	☐	

Candidate Signature ..... **Date** .....

City & Guilds Registration Number .....

Quality nominee (if sampled) ..... **Date** .....

Assessor Signature ..... **Date** .....

External Verifier Signature (if sampled) ..... **Date** .....

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