

# Unit 11: Systems Analysis and Design

Unit code:	F/601/7278
QCF Level 3:	BTEC National
Credit value:	10
Guided learning hours:	60

## ● Aim and purpose

The aim of this unit is to enable learners to gain an understanding of the principles of systems analysis and equip them with the skills to analyse business requirements and design solutions to meet business needs.

## ● Unit introduction

Systems analysis informs the development of large or small, but often complex, systems and the interactions within those systems. It provides structured processes that help to ensure designs are reliable.

In this unit, learners will gain an understanding of the principles and stages involved in systems analysis and the associated documentation involved in both the analysis and design stages. One key stage involves the determination of requirements and the writing of the requirements specification. Clear statements and understanding of the requirements are essential to ensuring that an appropriate solution is designed. In addition, the specification will provide the basis for later testing and evaluation.

The unit looks at why organisations undertake systems analysis as well as the benefits of carrying out such a formal process. A wide variety of methodologies are used, however they are all based on similar fundamental principles.

Learners will become familiar with a limited number of lifecycle models and the associated terminology involved in the analysis and investigation of a system.

Learners will develop a detailed knowledge and understanding of different methodologies and their benefits and uses in particular situations.

It is expected that learners will undertake an actual systems analysis and design activity. It is not expected, however, that learners will create the system or test it as part of this unit. Other units can be linked to this unit to carry through the design work to the implementation stage.

## ● Learning outcomes

**On completion of this unit a learner should:**

- 1 Understand the principles of systems analysis and design
- 2 Be able to carry out a structured analysis of business systems requirements
- 3 Be able to design business systems solutions.

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**Who's Who Marquis, Marquis Who's  
Who**

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*Edexcel AS GCE Applied ICT Double Award*, 2005 Offering you complete choice whatever your needs for the new GCE Exactly what you need for the new GCEs in ICT with books matching each specification and providing all information needed for either the single or double award The only books matched to every type of course students can take whether it is a single award or double award with Edexcel OCR or AQA The theory is linked to real IT industry practices so that students feel engaged and motivated Each book is written by an experienced author team to give tutors absolute confidence in the quality of the content The colourful clear design and lay out allows students to easily access the material Clearly differentiated assessment activities make it easy for students to work to a particular level

**Resistant Materials** Lesley Cresswell, Barry Lambert, 2003 The student friendly format and specification matched content makes this a vital tool for achieving success at AS and A2 level

*GCSE Applied Business for Edexcel* Carol Carysforth, Mike Neild, 2002 This volume meets all the assessment requirements of the Edexcel specification however it is also suitable for students following other specifications

Design & Technology Rick Davis, 2005 New editions of the bestselling Revise GCSE Study Guides with a fresh new look and updated content in line with curriculum changes Revise GCSE contains everything students need to achieve the GCSE grade they want Each title has been written by a GCSE examiner to help boost students learning and focus their revision Each title provides complete curriculum coverage with clearly marked exam board labels so students can easily adapt the content to fit the course they are studying Revise GCSE is an ideal course companion throughout a student s GCSE study and acts as the ultimate Study Guide throughout their revision

*Flow Dynamics and Heat Transfer* Mukesh Kumar Awasthi, Dhananjay Yadav, J. Paulo Davim, 2025-08-26 This book serves as a comprehensive guide to the fundamental and advanced principles of flow dynamics and heat transfer emphasizing computational techniques numerical simulations and real world applications Designed for researchers engineers and students this book bridges theoretical foundations with modern computational and experimental methodologies to address contemporary challenges in fluid flow and heat transfer Exploring a wide range of topics from compressible and non Newtonian fluid flow to microscale and nanoscale heat transfer mechanisms the book provides insights into emerging technologies and optimization strategies Readers will gain valuable knowledge on industrial applications including turbine cooling nanofluid based heat exchangers and AI driven predictive modeling for thermal systems An essential reference for professionals and academics this book equips readers with the knowledge and computational tools needed to solve complex fluid flow and heat transfer challenges across diverse engineering disciplines

*Food Technology* Belinda Campbell, Barbara Clapton, Catherine Tipton, 2002 Follows the structure of the GCSE Design Technology for Edexcel specification and provides practice exam questions at Foundation and Higher level to help build confidence This title contains practical activities and tips so students can practise what they have learned

**Business Essentials** BPP Learning Media, 2010-11-01 This book is designed to be of value to anyone who is studying

human resources whether as a subject in its own right or as a module forming part of any business related degree or diploma. However, it provides complete coverage of the topics listed in the Edexcel Guidelines for 21 Human Resource Management and 22 Managing Human Resources of the BTEC Higher Nationals in Business revised 2010. The book contains these sections: Human Resources Management HRM Issues. Features include summary diagrams, worked examples, and illustrations, activities, discussion topics, chapter summaries, and quick quizzes, all presented in a user-friendly format that helps to bring the subject to life.

*People Management*, 1999      **The British National Bibliography** Arthur James Wells, 2007      **The Times Index**, 2003 Indexes the Times Sunday times and magazine Times literary supplement Times educational supplement Times educational supplement Scotland and the Times higher education supplement      **Who's Who in Science and Engineering 2008-2009** Who's Who Marquis, Marquis Who's Who, 2007-12      **Systems Analysis and Design**, 2020-02-28      **Systems Analysis and Design** Kenneth E. Kendall, Julie E. Kendall, 1988      **Introduction to Systems Analysis and Design** Igor Hawryszkiewicz, 1991      BTEC National for IT Practitioners: Systems units Sharon Yull, 2010-07-15 BTEC National for IT Practitioners Systems Units has been written specifically to cover the systems pathway of the BTEC National specifications. This book caters for one of the most popular pathways in the BTEC National specifications bringing together all the key specialist units for students who have chosen the systems route including the core units specific to this pathway that aren't covered in the core unit book. When used alongside its companions for the core units and business pathways this series delivers the most accessible and usable student textbooks available for the BTEC National Units covered: Unit 11 Data Analysis and Design Unit 22 Network Management Unit 13 Human Computer Interaction Unit 28 IT Technical Support Unit 16 Maintaining Computer Systems Unit 29 IT Systems Troubleshooting and Repair. Written by an experienced tutor, each unit is illustrated with assessment activities, end of chapter questions, case studies, and practical exercises. The result is a clear, straightforward textbook that encourages independent study and acts as a reference to various topics within the qualification.

*Systems Analysis and Design* Kendall, 2010      *Systems Analysis and Design* Alan Dennis, Barbara Haley Wixom, Roberta M. Roth, 2008-12-10 The 4th edition of Systems Analysis and Design continues to offer a hands-on approach to SA/D while focusing on the core set of skills that all analysts must possess. Building on their experience as professional systems analysts and award-winning teachers, authors Dennis Wixom and Roth capture the experience of developing and analyzing systems in a way that students can understand and apply. With Systems Analysis and Design 4th edition, students will leave the course with experience that is a rich foundation for further work as a systems analyst.

**Visible Analyst** Kendall, 1999-08-01      Modern Systems Analysis and Design Jeffrey A. Hoffer, 2010      Essentials of Systems Analysis and Design Joseph Valacich, 2013-07-23 For courses in systems analysis and design. A clear presentation organized around the systems development life cycle model. Essentials of Systems Analysis and Design is a briefer version of the authors' successful Modern System Analysis and Design, designed for courses seeking a streamlined approach to the material due to course duration, lab

assignments or special projects This text also features the systems development life cycle model which is used to organize the information throughout the text The fifth edition emphasizes current changes in systems analysis

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