# **Unit 4.6**

# **Systems analysis & Design**

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# LO1

# Explain the role of systems analysis and design in systems development

System analysis:

This competence is the ability to collect and analyze data, recognize problems, and decompose a system into its constituent parts.

A system review is carried out to investigate a system. Any of its components to determine its goals. It is a problem-solving strategy that strengthens the mechanism and ensures that all of its elements function together to achieve their goal of measuring a variable against a value. (tutorialspoint.com, 2020)

System design:

It is the method of specifying the components or modules of a new business system or replacing an existing system in order to meet particular specifications. Before you begin planning, you must first fully understand the old system and decide how machines can be used to function efficiently. (tutorialspoint.com, 2020)

# Critically analyse the systems development lifecycle

Tutorialspoint.com (2020) System Analysis and Design. [Online] available from: <https://www.tutorialspoint.com/system_analysis_and_design/index.htm> [Accessed 6 April 2020].

# Explain how systems analysis can be influential in the redesign of a system

* 1. Evaluate different design methods and methodologies that can be used to analyse systems

LO2

2.1 Select methodology to analyse an existing system justifying choice

2.2 Use different information gathering techniques to review an existing system

2.3 Recommend improvements to an existing system

LO3

3.1 Present a solution to a client to improve an existing system, using an agreed format, justifying the proposed improvements

3.2 Evaluate feedback from client on proposed solution and make amendments where appropriate

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