

**Lesson ;2 value Engineering**



# Value Engineering

*[val-(.)yü ,en-jə-'nir-in]*

A systematic, organized approach to providing necessary functions in a project at the lowest cost.

# **Value Engineering**

Value Engineering is the conscious, systematic application of a set of techniques that identify the needed functions, establish values for them and develop alternatives to perform these functions at minimum cost.

## Value Engineering vs. Value Analysis ;

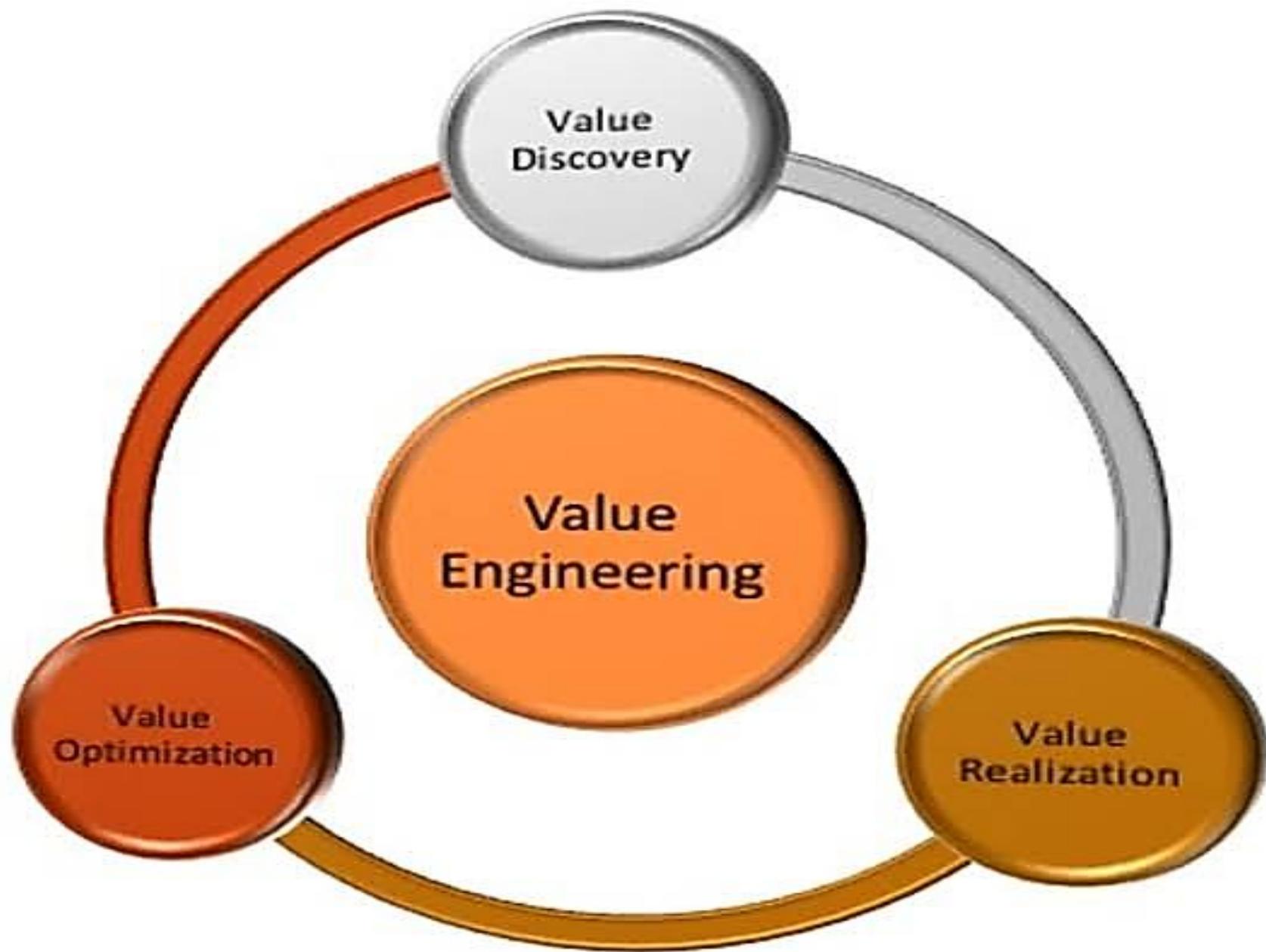
While value engineering is the technique often used before a product has been fabricated, [value analysis](#) is the technique used to analysis an existing product. The goal of value analysis is often to review an existing set of costs and benefits with the intention of enhancing its value.

While value engineering occurs earlier to prevent value loss, value analysis occurs after-the-fact and may be used to remediate product deficiencies. Value engineering is generally used to aid manufacturing, while value analysis may sometimes be used more heavily in the business or sales department.

Though the two terms may often be used interchangeably, value engineering is the practice of preventing unnecessary costs or deficient value while value analysis is the practice of eliminating costs or negative value components. Changes made in response to value analysis may be brought about during different stages of a product's life span, while value engineering only occurs at the initial product stage.

## **What Is Value Engineering?**

Value engineering is a systematic, organized approach to providing necessary functions in a project at the lowest cost. Value engineering promotes the substitution of materials and methods with less expensive alternatives, without sacrificing functionality. It is focused solely on the functions of various components and materials, rather than their physical attributes. Value engineering is also called value analysis.



## Homework ; 2

**1- what does it mean by value engineering ?  
Vs value analysis ?**

- **2- Extract all terminologies and translated from english into Arabic قم  
باستخراج كل المصطلحات وقم ترجمتها من الإنجليزية الي العربية)**

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