

Application of IDEF3 process description capture to mechanize manual tile installation

Abstract

Integrated Definition for Function which is also known as IDEF is a well structured modeling method that corresponds to a manufacturing system. For IDEF3, it is a process description capturing method created to capture descriptions of specific sequence activities. This article discusses the details of how IDEF3 is implemented and applied in mapping a tile installation process as it is known that IDEF3 has an ability to construct a well structured methodology or processes and enabling the process to be fully understood. Taking an example of IDEF3 process schematic in representing a tiles installation process, this article then shows a number of activities which can be identified as surplus to get it combined, simplified or removed and it is understood that the new IDEF3 diagram of tile installation process can be used to design and develop a better conceptual activities.

Keywords; IDEF, Tile Laying Process, Automation, Mechanization, Design Process.