

# ***Intelligent System of Effect of Applying the Total Quality Requirements on the House Function***

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## **Abstract**

The research extension of this topic falls between a theoretical framework and a practical one. The theoretical framework deals with the true nature of a house, its characteristics, functions and its impact on its surroundings. This framework also addresses the comprehensive quality, its characteristics and requirements. The practical framework includes a statistical analysis between the inputs which represent the housing requirements for achieving quality and the outputs which are represented by what the house accomplishes of these requirements, and the impact of quality requirements on the house in terms of function performance related to achieving the requirements for a practical evaluation of the house performance according to the requirements of quality and sustainability. The analytical aspect was performed using Excel and multiple linear regression software. It was represented by quality of (design, conformity, performance, effectiveness and productivity and its impact on the overall functionality of the house. It can be concluded that it is possible to adopt a model for future forecasts from any period and can be relied upon in terms of housing integration with social, environmental and economic factors. The practical framework showed that the effect of (design quality) has a positive effect on all types of performance, which indicates the importance of this factor, and its ease of directing it in controlling the general evaluation. Moreover, the (competency) variable had a positive effect on job performance.