NAME: AKUMA SUNNY

MAT NO: 17/ENG04/009

ENG 384

SHORT TEST

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You have been invited by the current president of Nigeria, General Muhammadu Buhari to make an argument for the optimization of engineering resources in the country. As an aspiring Engineer, briefly discuss your view on this and make viable recommendations that will facilitate timely completion of engineering projects within the allocated budget without jeopardizing economic and legal regulations of Nigeria.

Answer

Engineering processes are highly crucial and a synonym of development and growth, the need to use resources effectively and efficiently has become necessary in today's industrial ages. The continuous growth of industries has led to development of highly efficient or leaner processes which focus on minimum wastage and maximum utilization of the available resources through various technologies developed overtime. .

The optimising of utilities not only consists of handling resources in a smart manner, but also optimizing the path or manner in which they are handled. Adjusting the placement of machines as well as defining the flow of resources throughout the shop floor is also an integral part of the utility optimization process. An efficient flow ensures an efficient execution of process and minimum wastage of time and resources. This is usually done through the use of process flow charts do determine process steps as well as Pareto charts to determine the importance of every resource in terms of its usage and need in every process.Optimization of resource usage not only decreases the amount of waste generated, but also leads to greater profits and creates opportunities for recycling and reusing the wasted resources. In a lot of cases, resource optimization leads to a reduction in carbon footprint which is vital due to the currently degrading environmental conditions.

The environment is getting affected due to that very progress Resource optimization, hence, has become necessary not only for generating greater profits and minimizing wastage of resources, but also for sustainability.  “Recycle and Reuse” has become the motto for every major organization and new ways to optimize resource usage are constantly being researched and put into use. Since the progression of technology is inevitable, there will always be a great need for effective resource optimization processes which contribute to both- organization’s profits as well as sustainability.