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Workstudy and Method Engineering IE223

Assignment 01

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Brief history of workstudy and methods engineering, and its tools and techniques discovered.

Introduction

The field of methods engineering and time study includes designing, creating, and selecting the best manufacturing methods, processes, tools, equipment, and skills to manufacture a product after working drawings have been released by the product engineering section.

Brief overview of work study and methods engineering

Methods engineering implies the utilization of technological capability. Primarily because of methods engineering, improvements in productivity.

Importance in industrial efficiency and productivity

Growth and increased profitability in a business or enterprise can only be achieved through an increase in productivity. An increase in productivity is referred to as the improvement in output per work-hour or time expended.. The fundamental tool whose use results in increased productivity is methods, time study, and wage payment.

Historical development

1. The work of Taylor
2. Motion study and the work of the Gilbreths

Tools and techniques

Methods engineers usually use eight different process charts, each of which has specific applications.

1. Operation process chart.
2. Flow process chart
3. Flow diagram
4. Worker and machine process chart
5. Gang process chart
6. Operator process chart
7. Travel chart
8. PERT chart

Time study

The actual taking of a time study is both an art and a science. To find specific time required to do a task by labor, time study is taking place. There are certain elements of time study such as selecting the operator, analyzing the job and breaking it down into its elements, performance rating the operator, assigning allowance (personal, relaxation etc.).

Motion study

Motion study is the careful analysis of various body motions employed in doing a job. Its purpose is to eliminate or reduce ineffective movements, and to facilitate and speed effective movements. In the broad sense, motion study is covered by two degrees of refinement that have wide industrial application. This encompasses the

analysis and design of work systems to improve efficiency and productivity. By examining the tasks involved, motion study seeks to find the best sequence of movements, tools, and equipment to optimize the work process. It's a field that has significantly contributed to the advancement of industrial engineering and ergonomics, providing insights into human-machine interaction and workplace safety. The passive voice emphasizes the action and its impact rather than the subject, aligning with the objective nature of motion study itself.

The laws of motion economy

1. The use of the human body
2. The arrangement and conditions of the workplace, etc.

Work sampling

Work sampling is a technique by which the proportions of total time devoted to the various activities that constitute a job or work situation are investigated. The results of work sampling are effective for determining allowances applicable to the job, for determining machine and personnel utilization, and for establishing standards of production.

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MATCHED SOURCES:

[A&P Sistem & Ergonomi Chapter 1.docx - Niebel's Methods](#)

<https://www.coursehero.com/file/79973902/AP-Sistem-Ergonomi-....> (<https://www.coursehero.com/file/79973902/AP-Sistem-Ergonomi-Chapter-1docx/>)

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