

Assignment 01 Workstudy and Method Engineering IE223.docx

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Workstudy and Method Engineering IE223

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Assignment 01

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Brief history of work study 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 mostly as a result of productivity gains and method engineering.

Importance in industrial efficiency and productivity

Productivity growth is the only way for a corporation or enterprise to expand and become more profitable. The improvement in production per work-hour or time expended is known as a rise in productivity. 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 ³ 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

The meticulous examination of the many bodily motions used to perform a task is known as motion studies. 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 includes work system analysis and design for increased productivity and efficiency. Motion study examines the tasks to find the best configuration of tools, machinery, and motions to increase output. By illuminating workplace safety and human-machine interaction, this field of study has significantly advanced ergonomics and industrial engineering. In keeping with the objective character of motion studies itself, the passive language highlights the action and its impact rather than the person.

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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