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WAS

W. A. SHEWHART'S COLLECTION

THE FUTURE OF QUALITY CONTROL

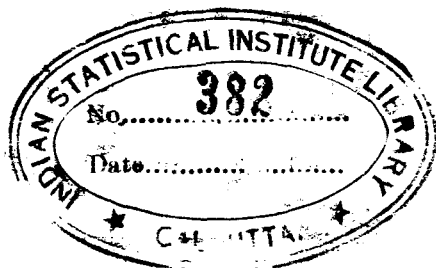
SADE-Q

by

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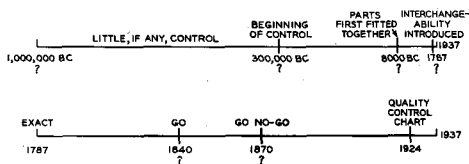
Talk before the Society for Statistical Quality Control, Newark, N.J.,  
January 30, 1946.



1. 234 papers on quality control in three years 1943, '44, '45.

Many ABC's - most deal with inspection and production.

2. Quality control a million years old.



Statistics entered in 1924.

### 3. Consumer wants

Research

Design

Development

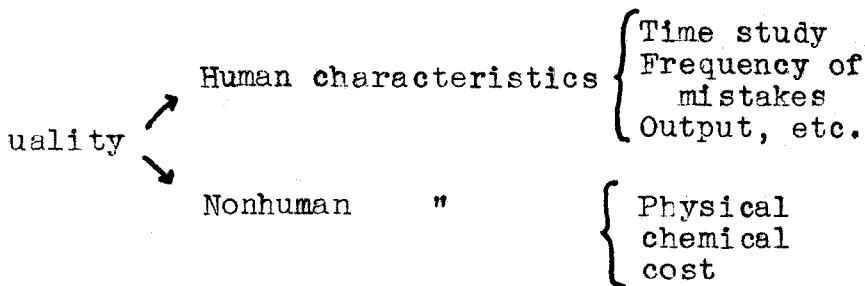
Specification

Production

Inspection

Operational research





Control

Target

What you do

Results of what you do.

SADE-Q

S

Consumer preferences

Consumer Wants

Measurement by { verbal response  
physiological response

D

Original data as  
Evidence E

Prediction P

Degree of belief  $p_b$   
in prediction P  
based on evidence E

Quality Assurance

E

Price-quality relationship.

Consumer standards movement

ASA      ASTM

Management

Definition - human and other elements. →

Scientific Control

I

II

III

Hypothesis	Experiment	Test of hypothesis
Specification	Production	Inspection
Statistical Hypothesis	Statistical Design of Experiment	Statistical test of Hypothesis
Statute	Executive Act	Judicial Act

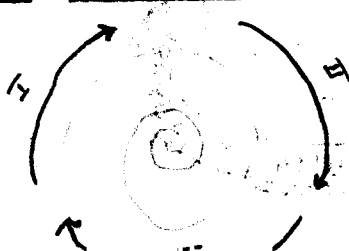
Applicable to any measurable quantity.

I

II

III

<u>Specification</u>	<u>Production</u>	<u>Inspection</u>
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**W. A. SHEWHART'S COLLECTION**

"Management is the art and science of preparing, organizing, and directing human effort applied to control the forces and to utilize the materials of nature for the benefit of man."

ASME Transactions. 1913.

