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## Scientific Management in Perspective As a Means of Achieving Progressive Stabilization

The order fro	m left	to right indica	ates roughly:	(1) chrono	logica
development;	(2)	application to	expanding	managerial	areas

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	GENERAL	MAJOR ITEMS OF	TECHNIQUE IN INDIVIDU	JAL ENTERPRISE	MAJOR ITEMS OF TECHNIQUE IN INDIVIDUAL ENTERPRISE			COLLECTIVE
	PRINCIPLES	1. Work-Place	2 S нор	3. Personnel	4. Marketing	5. Finance	6. Gen. Administration	ENTERPRISE
	RESEARCH IN ITS VARIOUS FORMS IS THE APPROACH TO SOLUTION OF ALL.PROBLEMS OF MANAGEMENT.	Engineering Studies in design of equipment. Economic studies in size and output of machines. Methods study Time study Motion study Studies in behavior of	Studies of the relations of facilities and classes of skills available at the various workplaces, and of the most effective co-ordination and proportioning of them under varying conditions of	Studies in mental and manual aptitudes Studies in personality requirements of various jobs Studies in emotional conditions and reactions Studies of group organ-	Quantitative Qualitative Studies of consumer de- mand	Most 'of data required by this department are procured by other de- partments, e.g., costs Studies of market for capital Studies of customers' credits and collections Studies of prices of ma-	Studies of the state and tendency of— Industry generally The particular industry The particular enterprise Industrial forecasting Studies of managerial	Scientific management has not been applied to the stabilization of industry on national a n d international planes, although ex- periments pointing in that direction have been initiated. These
•		materials Studies of skill	the kind and quantity of orders flowing into the shop.	izations	Studies in sales promo- tion Studies of competition	terials when purchasing is speculative instead of routine (e.g., cotton, rubber) Studies of financial ratios	operating ratios All researches of all de- partments contribute to the information re- quired by general ad- ministration	experiments, however, are not free from si- multaneous experi- mentation in other fields of social organi- zation
	STANDARDIZATION PROVIDES THE BASIS OF UNDERSTANDING NEC-ESSARY TO CO-OPERATIVE EFFORT, THROUGH FORMULATION OF PURPOSES,	Specifications of Materials Machines Tools and apparatus Product Unit times	Specifications covering co-ordination, propor- tioning and applica- tion of skills and fa- cilities under various specified conditions of	Specifications of person- ality requirements for various jobs Specifications relating to hiring, promotion and discharge	Quotas: territorial commodity and per-	Specifications Standard costs Financial ratios	Specifications of Policy Projects Plans Master schedules Master budgets	
	POLICIES, PLANS, PROJECTS, FACILITIES, METHODS, CONDITIONS. ETC., WHICH BECOME CONSTANT FACTORS IN PLANNING AND EXECUTION.	Methods Jobs Conditions Wage rates Quality Quantity	the kinds and quanti- ties of work. Production schedules	Specifications relating to training and sharing of information Specifications relating to personal and group relations	tion .		Operating ratios Ratios of relationship to the industry generally	
	CONTROL IS EFFECT- ED BY CO-OPERATIVE OBSERVANCE OF THE "LAWS" INHERENT IN THE SITUATION, DIS- COVERED BY RESEARCH AND MADE PRACTICAL BY FORMULATION IN TERMS OF STANDARDS.	Provision of materials and tools Specification of jobs or operations Inspection of product Inspection of performance	Functional separation of planning and execution Classification of operations Analysis of orders Routing; the analysis of the sequence of operations on a job Scheduling or assignment of operations to	Systematic intelligent di- rection of conduct in accordance with speci- fications in dicated above	Functional separation of planning and execution	Inspection of financial aspects of manage- ment in terms of vari- ous ratios	Inspection of: Conformity of operations to budgets and schedules Special attention to exceptional situations Prompt decisions concerning c hanges in purpose and policy	
			various work-places in accordance with rout- ing Inspection: products, re- sults, costs	·				
	CO-OPERATION AS A MENTAL ATTITUDE IS A CONDITION OF EFFICIENT COMMON EFFORT, AND AS A MODE OF CONDUCT IS THE RESULT OF THE FORMULATION OF STANDARDS OF PURPOSE, FACILITY, METHOD AND RELATIONSHIP.	of the common pure	s a result, co-operation is pro n the total situation: underst lose; instruction and the un ormance of complementary	anding and acceptance	facilities; just sharing	and promotion of personnel; of the joint economic rewarsion of work to be done.		