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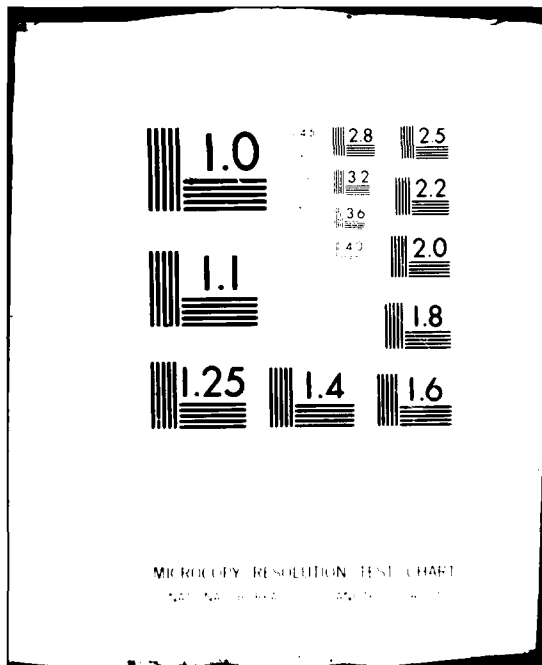   SEP 80   E A LOCKE   N00014-79-C-0680
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This article briefly summarizes the history of goal setting and the key elements of goal setting, including: goal attributes, goal mechanisms, goal choice, goal commitment, support elements, benefits and pitfalls and practical considerations.

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GOAL SETTING

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TECHNICAL REPORT GS-4

To Appear in C. Heyel (Ed.)

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GOAL SETTING

Managing a business, like managing one's life, requires a process of purposeful, goal-directed action. To better achieve the objectives of the organization, specific goals can be set for each individual employee. This can be done at any level or all levels of the organization from president to janitor.

HISTORY

The first scientific approach to goal setting was developed by Frederick W. Taylor, the founder of Scientific Management, in the early 1900's. Based on the results of time and motion studies, he assigned blue collar workers daily goals or tasks. Work quantity and quality were measured daily and workers were given feedback indicating whether or not they attained their assigned tasks. Taylor's ideas (including his ideas on cost accounting) were later adapted by Pierre Dupont for use with managers at the Dupont Powder Co. and later at General Motors by Dupont, Donaldson Brown and Alfred P. Sloan [1]. This was the probable origin of the practice of Management by Objectives (although it was not so labeled until 1954 by Peter Drucker).

THE GOAL SETTING PROCESS [2]

Goal setting does not have to be part of a wider management system to be effective. It can be used with single individuals, groups of individuals, work units or departments as well as with entire organizations. Extensive research has revealed a great deal about the goal setting process and what makes it work.

<u>Goal Attributes</u>. To be effective in improving performance, goals should be <u>specific</u> (preferably quantitative, e.g., "Reduce costs by 5%") and <u>challenging</u>, which means "difficult but reachable." It has been found that people trying for specific, challenging goals consistently outperform: individuals trying to "do their best," those with specific but easy goals, and those with no particular goals.

<u>Goal Mechanisms</u>. There are four major mechanisms by which goals affect task or work performance. First, goals direct attention and action. If a manager is given a goal to cut costs, then he or she will focus on this activity rather than on tasks with lower priority (e.g., recruiting, new product development). Second, goals mobilize effort and energy. Thus people will work harder to attain a challenging goal than to attain an easy one (e.g., to increase sales by 20% vs. to increase sales by 1%). Third, challenging goals increase task persistence. If goal commitment is adequate, people will keep working until the goal is reached. For example, more persistent effort will be required to reduce the error rate from 5% to 0% than to reduce it from 5% to 4%. Finally, goals may indirectly motivate the development of new strategies for goal attainment. Goals cannot always be achieved simply through hard work and persistence; often it is necessary to "work smarter" rather than harder [3]. Thus, for example, to increase sales may require a new marketing strategy or new product development rather than more effort to sell existing products.

Goal Choice. How is a manager to decide what specific goals
to set? Frederick W. Taylor developed the most scientific
system for repetitive manual work: time and motion study; it
allows a reasonably precise calculation as to what consti-
tutes a "fair day's work." However, all jobs (e.g., managerial
jobs) do not allow for such exact estimates. Furthermore,
employees sometimes resist such methods. An easily calculated
and readily accepted alternative to time and motion study is
to set as a goal the average previous performance of the
individual or unit. Sometimes, however, the proper goal level
is simply a matter of judgment; competent employees can be
allowed to set their own goals (through delegation) or they
can be set by joint agreement of supervisor and subordinate
(through participation). Often there are external constraints
such as contract deadlines or competitors' actions which dictate
what goals must be met. Under a Management by Objectives system,
of course, the formal goals of the organization (however derived)
are the basis for setting the goals for each employee.

Goal Commitment. Once goals have been set, the problem arises
as to how to insure commitment to those goals. If there is no
goal commitment, goals will not improve performance. Often the
benevolent authority of an individual's boss is sufficient to
gain acceptance of the assigned goals, especially if there is a
relationship of mutual trust between manager and subordinate.
(Contrary to frequent claims by social scientists, participatively
set goals have not been shown to lead consistently to greater
goal acceptance or accomplishment than assigned goals.) Sup-
portiveness on the part of the boss may also be helpful. A

supportive supervisor or manager: listens to his or her
subordinate, answers questions, helps with problems, and
maintains a friendly atmosphere [4]. If a number of different
individuals are doing the same or similar jobs, spontaneous
competition usually arises among them, an element which
fosters goal commitment because of the added incentive of
beating someone else's performance. (Deliberately encourag-
ing competition is a risky procedure, however, since the focus
may become more on beating the other employees than on the
success of the organization as a whole. Also chronic losers
often give up, which they would not do if they were trying for
a fixed standard that was suited to their level of experience
and ability.) Money bonuses for goal accomplishment are a
very effective method of facilitating goal commitment, since
most people value money and want recognition in a tangible
form. Once employees have a history of success in reaching
their goals, acceptance of future goals is more easily attained.

Employees resist goal commitment typically for one of three
reasons. They may feel that they cannot attain the goal because
it is too difficult. Additional training and skill development
plus encouragement will often overcome fear of failure. The
goal, of course, actually may be too difficult in which case
it should be lowered. Sometimes employees do not accept goals
because they do not trust their bosses. Allowing employees to
participate in setting goals may overcome some of this dis-
trust and give them a greater sense of control over their fate.

Goals may also be rejected because employees do not believe
that goal accomplishment is really considered important by
the organization. They may believe that setting goals is
just a lot of paper work that will be put into the files and
forgotten. (In some cases, of course, they are correct; a
good example is the recent fad toward the use of "instructional
objectives" in the public schools. Typically teachers simply
fill out the forms which are then filed, never to be seen
again). A good way to convince employees that their goals
are to be taken seriously is to base the employee's performance
appraisal and rewards (e.g., pay) partly on goal attainment.
Asking for periodic reports regarding goal progress is also
an indication that the goals are to be taken seriously.

Support Elements. While setting goals and getting employees
committed to reaching them is necessary to motivate improved
performance, a number of support elements must be provided to
insure that this heightened motivation is translated into
successful action. First, the employees must have the ability
to attain their goals. Simply motivating ignorant, incompetent
employees will not make them effective. Managers must insure
that their selection techniques and training systems yield
able and knowledgeable employees. In addition, every goal
that involves anything more than extra effort should be accom-
panied by a carefully developed action plan or strategy for
goal attainment. It was noted earlier that goals may motivate
strategy development, but this is no guarantee that a sound
plan will actually be developed. The boss's input, based

(presumably) on his or her greater knowle.ge, may be needed to insure that the action plan is adequate. Input from co-workers (as in team problem-solving) may also be valuable. Second, it has been found that goal setting only works when individuals are provided with <u>feedback</u> regarding their progress in relation to their goals. Without such feedback employees will not know if they are working hard enough or if the strategies they are using are appropriate. Feedback frequency should be based on need. For non-managerial jobs, daily feedback may be both appropriate and useful. For managerial jobs it may be practical only to provide feedback weekly, monthly or quarterly. Third, management must provide sufficient resources to get the job done. This may involve additional: equipment, people, time, money and/or expertise. Fourth, company policies must not block goal attainment. For example, rigid rules may prevent the development of innovative strategies. Company "politics" may prevent action plans from being imple-mented. Failure to give a degree of responsibility commensurate with the complexity of the goals to be attained may prevent the goals from being reached.

<u>Benefits and Pitfalls</u>. When the goal setting process is carried out properly, numerous benefits can result. Productivity and performance quality should increase. Costs may decline. Role clarity may increase while role ambiguity is reduced. If goals are achieved, there will be increased satisfaction, pride in accomplishment, and self-confidence on the part of employees.

But goal setting is not without its hazards. For example, if hard goals are combined with high management pressure and

low supportiveness, employees may be tempted to take short cuts and even resort to dishonest practices (e.g., observe the recent scandals involving college athletic coaches). Also, aspects of the job which have not been translated into goals will typically be ignored. This, of course, is the purpose of setting goals: to direct action towards certain ends at the expense of others. But sometimes the ignored aspects of the job are still important to the organization. One way to solve this problem is to formulate goals for such previously ignored aspects. Finally, striving for goals entails the risk of failure. Employees who fail to reach their goals can become discouraged and dissatisfied. However, this problem can be mitigated somewhat by emphasizing progress toward the goals and by developing more appropriate action plans.

SPECIALISTS NEEDED

Goal setting programs should be administered by an individual well versed in the goal setting literature. If no goal setting programs currently exist in an organization, hiring an outside consultant is advisable. Based on subsequent experience, organizations may then develop their own in-house capability for operating goal setting programs. However, if such programs are to succeed on a wide scale (as opposed to in a single unit or department) extensive support is needed from the highest levels of management.

Managers should be aware that goal setting programs are sometimes peddled under other names. For example, most "organizational behavior modification" programs consist of goal setting

plus feedback described in the pseudo-scientific terminology of behavioristic psychology. Such programs often include many of the principles and procedures described in this article.

COSTS

Goal setting programs are extremely cost effective. For example, one such program, developed by Dr. Gary Latham of the University of Washington with truck drivers at a forest products company, saved the company over $250,000 [5]. If money incentives are used to aid goal commitment, this will increase the costs somewhat, but the benefits of such programs still should far exceed the costs.

CONCLUSIONS

In the last eleven years alone there have been over 100 published studies on the effects of goal setting on performance in both laboratory and field settings. In 90% of the studies goal setting was effective in improving task performance [6]. This makes it one of the most effective and reliable motivational techniques known. The average goal setting program in an organizational setting achieves a 16% improvement in task performance; some achieve much more. In combination with money incentives, goal setting may achieve performance improvements in excess of 40% [7].

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