ABSTRACT

Although assessment efforts for identifying and predicting management skill levels have been in vogue for over a decade, and the use of the results has been readily adapted to skill development use, there exists an unrecognized methodological schism between identification-prediction and development. The author has not found the generally assumed transition from skill identification methodology and the skill development methodology to be congruent. The author’s research has found the development of management skills over time (over one year), with use of an assessment program, requires some significant adaptations. It requires a different model which provides cognizance and rigor to the improvement effort. The assessment model described in their paper, the Hive, provides situational adaptation, a skill improvement tracking system and more effective results.

INTRODUCTION

Research establishing the practical value of assessing management skills for student and manager selection and development has made considerable progress in recent years. Unusual support has been afforded assessment centers by the federal courts as well as the uncommon solidarity by practitioners, consultants, and academicians for the theoretical base and workable results of the process. This paper focuses on the latter point-- the validity of using assessment centers for individual development--and presented a new model that appears to enhance this process. In contrast to most studies, specific focus will be on the development problems encountered that are singularly unique to an assessment committed to skill development.

The author has found the problems identified are interrelated and, although not systematically considered, are common to most assessment centers. They can be categorized as follows:

1. Feedback is highly dependent on the skills of the assessors. Feedback is encouraged to be, and usually is, given both orally and in writing in a constructive manner, concentrating on positive ways that the individual can use the information to upgrade his or her managerial skills. This illative feedback provides a positive result for the assesses, both in letting them know what their strengths and weaknesses are and in letting them identify ways in which they can be involved in a constructive change. However, the impact of the feedback tends to be diluted by both the varying communicative skills of the assessors and the discordant conciseness of the oral and written information transmitted to the assesses.

2. The cognizant impact on the student-participants varies considerably. Due to the nature of the feedback, some participants’ opportunities to discount and blend the discrepancies between their self-appraisals and the assessors’ feedback increased with time. During development plan counseling sessions, primarily those held toward the latter part of the two-year program, two startling comments were frequently heard: first, “I really didn’t learn anything about my management skills that I didn’t already know;” and secondly, “The feedback wasn’t specific or encompassing enough for me to know exactly what skills I might work on to develop.”

3. The dimensions were limited to nine constellations of related behaviors to which the assessors and assessees had to relate. The dimensions and the rating scales had to be common and applicable to
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different management situations because the participants were, or would be in the future, working in different multifunctional organizations. Maintaining the scales to a minimum constellated number has research validity. However, this experience of longitudinal skill development experimentation has demonstrated that the ambiguous nature of limited constellation ratings has serious limitations over time.

4. The system lacked a lucid and relatively detailed picture of feedback from which comparisons of self-appraisal and collaborative developmental tracking could be realized.

The Model, Scale Design, and Development

The model. A configuration or model was needed that would be as pictorial as possible. One that would allow the scaling breakdown of behavior constellations in a plottable, graphic manner. A model which would vividly contrast the explicit discrepancies between the assessee’s self-appraisal and the assessor’s converged feedback. The format would also have to be flexible enough to adjust to rating scale changes, behavior category expansion, or reduction. The Hive model, a construct created by World-Wide Achievements, Inc. for other learning purposes, fulfilled all these requirements plug being relatively easy to apply and to understand. The method used was adapted to scales designed by the author to measure observable behavior rather than personal traits. The method was also more precise than typical assessments, yet its specificity did not appear to make it inapplicable to the development of organization-wide scales in a multifunctional management environment.

Scales design. The scales in this study were developed after a series of meetings with groups of managers who were asked to list the characteristics that were considered essential for advancement in most managerial jobs. The researchers refined the managers’ lists by eliminating obvious overlaps and ambiguities and eliminating personality traits or other characteristics that did not represent observable behavior. The refined list was pilot tested by having managers use the scales to rate themselves and a few of their subordinates.

The scales were to be used for developmental purposes and designed to describe behavior in highly structured simulations where assessors could be trained to relate many scales to behavior commonly elicited by these simulations. In a sense, the new design and model more fully complied with good psychometric practice in keeping the scales unidimensional. For example, scales designed for assessment centers usually describe only one or two constructs. However, the number of scales, although more precise, increased by six times.

The scales. The nine dimensions and their scaled behavior clusters are as follows:

1. Work Characteristics
   Involved in task immediately; operates at a fast pace; does not disturb any others with work; checks progress.

2. Organization and Planning
   Considers the total situation; identifies the elements of the situation; arrays alternatives; analyzes consequence of alternatives; prioritizes alternatives; considers precedent for future problems; strategizes before taking action; sets goals and objectives; prioritizes objectives; breaks items into double parts; distributes resources; uses organizational aids if possible; considers contingency actions; plans for short-range objectives; plans for long-range objectives.

3. Leadership
   Others react positively toward the person as a leader; others give the person attention; others listen to person’s inputs; gives information to others; seeks information from others; seeks to influence others; can be very directive if needed; can be very nondirective; builds supportive relationships; pursues own point of view with others; pursues other point of view with others.

4. Oral Communication
   Attempts to speak; speaks loud enough; pronounces words distinctly; pronouncements noticed by others; effective eye contact; effective voice inflections; energy effectively put into speaking; listens to others; responds effectively to what others are saying; impact on others appears to be what has been intended; concise.

5. Decision Making
   Searches for alternatives; decisive; displays good judgment.

6. Perception
   Sees critical elements of problem; sees relationships among elements of a problem; evaluates people accurately; sees the obvious; sees underlying causes; identifies practical/political limitations on various solutions; identifies creative possible approaches to problems.

7. Delegation
   Delegates when appropriate; clarifies given expectations; holds others accountable with follow-through; extends degrees of freedom.

8. Written Communications
   Content clear and understandable; concise; organized; appropriate word choice; neat.

9. Response to Change
   Adaptable; maintains calm leadership under unusual or adverse conditions; maintains own decision! when appropriate.

The Hive Figure 1 shows the format and content of the nine dimensions and their behavior clusters within a Hive matrix. The skills are plotted within specific cells in the Hive. There are blank cells in the Five which allows for easily adapting the skills dimensions to the needs of different organizations or unique organizational unit situations. If needed, each column or individual cell of the Hive Matrix can be expanded into its own Hive matrix to include specific skill behaviors or conceptual skill breakdowns. Thus, the Hive becomes a dynamic model simply adjusted to the needs of the user.

The Study and Results

After the scales were developed and assessors trained, two groups were assessed. They were:
Group I -- Thirty-eight mid-career managers seeking graduate degrees in administration.

Group II -- Forty-seven full-time graduate students in administration.

Both groups were asked to self-appraise their performance on the assessment workshop prior to receiving the converged results of assessors. The skill behaviors were scaled on a five-code system: (1) weak, (2) questionable, (3) satisfactory, (4) more than satisfactory, and (5) outstanding. Figure 2 shows the contrasting mean results between the assessors' "converged" assessment of the two groups collective skills and the groups' own "self"-appraisals of their performance.

Over seventy-five percent of the management skills for both groups combined were assessed by the assessors as significantly (p < .01) lower than the self-appraisals of the assessees. Collectively, none of the skills were assessed significantly (p < .05).

Figure 3 shows that when comparing separately the graduate students and mid-career managers' self appraisal and assessors' converged rating, mid-career managers saw themselves significantly (p < .01) more effective than the converged in 80 percent of the matrix cells or the separate skill behaviors. The full-time graduate students collect-
tively saw themselves significantly ($p < .01$) more effective in only 15 percent of the skill behaviors.

The comparison between the managers' and the full-time graduate students' self-appraisals revealed 17 percent of the skills being viewed as significantly different. The managers saw ten of their skills as being significantly more effective than the full-time students, only three skills were seen by the full-time graduate students as being significantly more effective and they were in the leadership dimension of "building supportive relationships" and the communications dimension of "being concise" and "pronouncing words distinctly."

Table 1, using just the mid-career managers, illustrates the wide discrepancy between the assesses' collective view of their performance on specific skills and those converged appraisals by the assessment teams. With the pictorial Hive this form of specific contrast and congruence in a modular and specific manner is available for the individual assessee, treating a rigor of awareness unobtainable with former methods.

Table I

Skills collectively assessed as being significantly less effective by assessor teams than perceived by the performing mid-career managers.

Skills Significantly Different at the .001 level

Maintains own decisions when appropriate
Identifies creative possible approaches to problems
Identifies practical/political limitations on various solutions
Sees the underlying causes of problem

Table 1

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Identities practical/political limitations on various solutions
Sees the underlying causes of problem
Sees the obvious
Evaluates people accurately
Sees relationships among elements of a problem
Sees critical elements of a problem
Displays good judgment
Decisive
Searches for alternatives
Responds effectively to what others are saying
Pursues others' points of view with others
Seeks to influence others
Seeks information from others
Gives information to others
Others listen to person's inputs
Others react positively toward person as a leader
Plans for long-range objectives
Considers contingency actions
Prioritizes objectives
Sets goals and objectives
Considers precedent for future problems of alternatives
Prioritizes alternatives
Analyses consequence of alternatives
Arrays alternatives
Considers the total situation
Checks progress of work
Does not disturb effectiveness of others with own work
Involved in work immediately

Skills Significantly Different at the .01 Level
Extends degrees of freedom in delegating
Holds others accountable with follow-through dates
Gives expectations clearly
Listens to others
Speaks loud enough
Builds supportive relationships
Receives attention from others
Plans for short-range objectives
Distributes resources
Strategizes before taking action
Identifies problems
Determines problem possibilities
Identifies problem elements

Skills Significantly Different at the .05 Level
Maintains calm leadership under unusual or adverse conditions
Adaptable
Energy effectively put into speaking
Effective voice inflections
Pursues own point of view with others
Can be very directive
Breaks items into do-able parts

Conclusion

The research showed that assesses' self-appraisal rating is consistently higher than the converged assessors' view of their performance on the same activities. This tendency to rate higher was much greater for the mid-career manager than for the full-time graduate students. Perhaps Managers tend to assume their work success is based on a higher quality of management skill than they possess.

The results of the Hive as a pictorial means of specifically rating behavior is encouraging. The most observable reversal in behavior has been the evidence of a cognizant impact on the assesses. When the feedback is received there are a few initial sightings, denials, of rationalizations; but preeminently a discomforting awareness that perhaps their preconceptions of personal management skills might need adjustment. Those participants whose skills are assessed more favorably than they had appraised themselves appear more confident. Students have tended to engage in studying their results and formulating more specific and systematic development plans than were before possible.

Elaboration on the follow-up development strategies is not possible in this paper. However, periodic development counseling encourages assesses to take no more than three priority skill areas at a time on which to concentrate their improvement plans. Since we are now considering a much more comprehensive and specific development plan, and awareness of a need for development consideration is heightened, a limitation in sequential development strategies is critical to avoid overwhelming the student.

Perhaps the most rewarding benefit of the Hive assessment occurs when promising students ask “How do I build those strengths? How can I overcome those weaknesses? How can I develop those skills?” Thanks to Hiving there is a more systematic way to analyze the feedback, visualize the skills, and track the growth.

REFERENCES