IMPLEMENTATION OF PROFILE MATCHING METHOD IN ASSESSMENT OF EMPLOYEE PERFORMANCE IN DIRECTORATE GENERAL OF OIL AND GAS

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Abstract
Every employee is always trying to improve their skills and achievements. So he can get a good career path according to his idea. Institutional Directorate General of Oil and Gas in the Ministry of ENERGY and Mineral resources, as well as the assessment of employee performance also provided by the company to reward certain achievements. At this time analysis of assessment officers in Ditjen Migas is still done in a subjective. There should be ways and methods as an alternative election leader to suit your needs. In this study, the profile matching method was used as an alternative to providing assessment and evaluation of the key performance indexes of each employee. There are two aspects in conducting assessment and evaluation, namely: performance aspect and work satisfaction aspect. There are several levels of performance aspects: a leadership of thoroughness and responsibility, verbalization of ideas, encouragement of achievement, concentration, and creative imagination. The work satisfaction aspect has a discipline, high moral value, skilled, integrity, and loyalty. There is a ranking change from candidates after being counted by the profile matching method whose employees with NIP 1388510026 have the first position in 4.5137.

Keywords: Employee Performance Assessment, Profile Matching, DG Oil and Gas

INTRODUCTION

Every employee in Ditjen Migas always strives to improve its capabilities and achievements. So he can get a good career path according to his idea. The reliable and supporting development in Ditjen Migas will certainly make it easy for people to get higher performance.
assessment results from previous positions. Employee performance assessment was also given by the Directorate of Oil and Gas to reward certain achievements. At this time analysis of officers assessment in Ditjen Migas is still conducted in a subjective (Mashyur & Frieyadie, 2019). If the co-worker or employer performs an assessment subjectively (Handayani, 2017), Employees who are assessed will not have the same value as both (Chasanah et al., 2012).

The research that will be discussed in this research is how to assess employees by the criteria based on objective consideration between the competencies, qualifications, and requirements required by the Directorate General of Oil and gas without distinguishing gender, ethnic, religious, racial and (Astriratma et al, 2017) which covers aspects of performance and work satisfaction aspect in a particular position, to assist the assessment process of this employee's performance, need to create a system that can provide input for management, especially General Bureau and personnel in making the right decision for the development of potential employees (Purwaningsih & Supriyanto, 2020).

To facilitate the implementation of the assessment process of personnel performance from each employee, a decision-making system is aimed at facilitating the process. One of the methods used in decision assessing employee performance is Profile Matching. Matching profile matching is a decision-making mechanism by assuming a variable predictor is ideal to be owned by the employee, instead of the minimum level that must be filled or passed (Ernawati et al., 2017). Because Profile Matching method can identify the employees who have good or bad performance (Handayani, 2017) and provide maximum results, valid data, and efficient time. The criteria or aspects used in the decision support system for CIVIL servants in this achievement are disciplines, integrity, organizational commitment, leadership, cooperation, job achievement and service-oriented (Kristiana, 2015).

**RESEARCH METHODS**

Obtain data by conducting research directly to obtain good and correct data with the following data collection model:

a. Observation

In this method, the author performs a direct observation (observation) which is one of the techniques of collecting data that is effective enough to study a system. The author performs observations that are the process of assessment of employees' performance and detailed research directly on the Directorate General of Oil and gas.

b. Interview

In this method, interview with questions and answers directly with the head of Data Manager Sub-section and Information Directorate General of Oil, Mr. Agustiawan, about any indicator that is a reference to the assessment of employee performance.

c. Library Studies

By this method, the author describes the problem clearly and objectively based on the theories that the authors learned during the lecture. Besides, authors also get data through the collection of multiple books, journals, searching Google or ebook.

**Types of Research**

The study uses quantitative approaches as well as including applied research.

**Target/Subject Research**

The Target/subject in this research is to assist the HRD in conducting an assessment of employee performance of the Directorate General of Oil and gas using the Profile Matching method.

**RESEARCH METHODOLOGY**

Research or research is often described as an investigative, orderly and systematic investigation process aimed at discovering, interpreting, and revising facts.

**Stages of Research**

By the description of the research above that the research activities are conducted with a planned, orderly and systematic. For that, research activities are carried out in several phases.

1. **Literature Survey**

In this early stage, researchers conducted a collection of literature materials and related information.

2. **Problem Identification**

Continuing the research by identifying the problems that will be discussed, about the decision support system of employee performance assessment using the Profile Matching Method of Directorate General of Oil and gas. Based on the literature and information obtained.

3. **Library Studies**

Researchers study literature in the form of theoretical books on decision support systems.
and Profile Matching methods that will be used as theoretical studies in research.

4. Hypothesis
   a. Does the influence of subjective employee performance assessment become more objective?
   b. There is more effective influence by using Profile Matching method in determining the assessment of employee’s performance?

In this research, the error rate (acceptable error) used is 10%. From the results obtained in the calculation above, there is a minimum sample of 4.76 and sampled as many as 5 employees.

RESULTS OF RESEARCH AND DISCUSSION

Aspects of Employee Performance Assessment

In the assessment of employee performance, using Profile Matching method, there are several aspects assessed and from this aspect, there are sub-criteria, which can be seen in Table 1 as follows:

Table 1 Aspects of Performance Assessment

| No | Performance Aspect | KN01 | KN02 | KN03 | KN04 | KN05 |
|----|--------------------|------|------|------|------|------|
| 1  | KN01 : Leadership, Thoroughness, and Responsibility | 87   | 85   | 81   | 78   | 84   |
| 2  | KN02 : Verbalization of Ideas | 83   | 82   | 79   | 88   | 90   |
| 3  | KN03 : Boost Achievement | 91   | 86   | 84   | 87   | 85   |
| 4  | KN04 : Concentration | 90   | 82   | 78   | 88   | 80   |
| 5  | KN05 : Creative Imagination | 82   | 78   | 87   | 95   | 77   |

Description:

KN01 : Leadership, Thoroughness, and Responsibility
KN02 : Verbalization of Ideas
KN03 : Boost Achievement
KN04 : Concentration
KN05 : Creative Imagination

It can be seen that each NIK gets its value according to its performance aspects.

Table 2 Range Values

| Range | Sub Criteria Value | Scale |
|-------|--------------------|-------|
| <64   | 1                  | Less  |
| 65-74 | 2                  | Enough|
| 75-84 | 3                  | Good enough |
| 85-94 | 4                  | Good  |
| 95-100| 5                  | Excellent |

Calculation of Employee Performance Assessment with Profile Matching Method

Competency GAP Mapping

Before calculating the value of competency Gap from all candidate officers who will be in the performance value, in Table 3 below are a table of values of performance aspects and aspects of work satisfaction.

Table 3 Performance Aspect Values Table

| N   | NIK | Performance Aspect Values | KN01 | KN02 | KN03 | KN04 | KN05 |
|-----|-----|---------------------------|------|------|------|------|------|
| 1   | NIK.197903082008011001 | 87   | 85   | 81   | 78   | 84   |
| 2   | NIK.198707102015032005 | 83   | 82   | 79   | 88   | 90   |
| 3   | NIK.199702022019021002 | 91   | 86   | 84   | 87   | 85   |
| 4   | NIK.199311192019021001 | 90   | 82   | 78   | 88   | 80   |
| 5   | NIK.196806021990023001 | 82   | 78   | 87   | 95   | 77   |

Description:

KK01 : Discipline
KK02 : High Moral Value
KK03 : Skilled
KK04 : Integrity
KK05 : Loyalty

It is explained that each NIK gets its value according to its performance aspects.
Mapping Gap Competency Performance Aspect in Directorate General of Oil and Gas

The meaning of the gap here is the difference between the coordinator profile and the employee profile. The calculation of competency gap mapping is based on the aspects that exist, here are the calculations in Table 5.

Table 5 Gap Performance Aspect

| No | NIK                  | KN 01 | KN 02 | KN 03 | KN 04 | KN 05 |
|----|----------------------|-------|-------|-------|-------|-------|
| 1  | NIK.1979030820080101 | 4     | 4     | 3     | 3     | 3     |
| 2  | NIK.1987070102015032005 | 3     | 3     | 3     | 4     | 5     |
| 3  | NIK.199702022019021002 | 4     | 4     | 3     | 4     | 4     |
| 4  | NIK.199311192019021001 | 4     | 3     | 3     | 4     | 3     |
| 5  | NIK.196806021990032001 | 3     | 3     | 4     | 5     | 3     |

Profile Coordinator

Based on the results of the performance aspect calculation of table 5 can be known Gap or the difference from the profile required for each candidate.

Mapping Gap Competency of Work Satisfaction Aspect of Ditjen Migas

Table 6 Gap Work Satisfaction Aspect

| No | NIK                  | KK0 1 | KK0 2 | KK0 3 | KK0 4 | KK0 5 |
|----|----------------------|-------|-------|-------|-------|-------|
| 1  | NIK.19790308200811001 | 3     | 3     | 4     | 4     | 4     |
| 2  | NIK.1987070102015032005 | 3     | 4     | 3     | 3     | 3     |
| 3  | NIK.199702022019021002 | 3     | 3     | 3     | 3     | 3     |
| 4  | NIK.199311192019021001 | 4     | 3     | 4     | 3     | 4     |
| 5  | NIK.196806021990032001 | 3     | 3     | 3     | 3     | 4     |

Profile Coordinator

Based on the calculation results in table 7, the weight of the performance aspect value for each candidate.

Determination of Weight GAP Value of Work Satisfaction Aspect of Ditjen Migas

Weighting is done after the gap is obtained at each employee, each employee profile is weighted by the value of the table weight of the gap value.

Table 7 Weight Performance Aspect Value

| No | NIK                  | KN 01 | KN 02 | KN 03 | KN 04 | KN 05 |
|----|----------------------|-------|-------|-------|-------|-------|
| 1  | NIK.1979030820080101 | 0     | 1     | 0     | 0     | -2    |
| 2  | NIK.1987070102015032005 | -1     | 0     | 0     | 1     | 0     |
| 3  | NIK.199702022019021002 | 0     | 0     | 0     | 1     | -2    |
| 4  | NIK.199311192019021001 | -1     | 0     | 1     | 2     | -2    |
| 5  | NIK.196806021990032001 | 0     | 1     | 0     | 0     | -1    |

Based on the calculation results in table 7, the weight of the performance aspect value for each candidate.

Determination of Weight GAP Value of Work Satisfaction Aspect of Ditjen Migas

Weighting is done after the gap is obtained at each employee, each employee profile is weighted by the value of the table weight of the gap value.
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The results obtained:
1. NSF = 4.25
2. NSF = 4
3. NSF = 4
4. NSF = 4.5
5. NSF = 4.5

Based on the calculation result of Core Factor and Secondary Factor for work satisfaction aspect obtained value for each candidate in Table 10.

Total Value Calculation
From the calculation of the core factor and secondary factor of each aspect, then the calculation of the total value. Calculations can be seen with the formula below:

\[ N_{(kn,kk)} = (x)\%NCF_{(kn,kk)} + (x)\%NSF_{(kn,kk)} = N_{(kn,kk)} \]  

(5)

Calculation of Total Aspect Value of Performance
Based on the formula of total value calculation above we can calculate the total value of each aspect. Here is a calculation of the performance aspect:

\[ N_{(kn)} = (x)\%NCF_{(kn,kk)} + (x)\%NSF_{(kn,kk)} = N_{(kn,kk)} \]  

(6)

The results obtained:
1. N(kn) = 4.6225
2. N(kn) = 4.6825
3. N(kn) = 4.6875
4. N(kn) = 4.687
5. N(kn) = 4.1875

Based on the total value of the performance aspects, the total value for each candidate is based on Table 11.

Total Value Calculation Aspects of Job Satisfaction
Based on the formula of total value calculation above we can calculate the total value of each aspect. Here is the calculation of the work satisfaction aspect

\[ N_{(kk)} = (x)\%NCF_{(kn,kk)} + (x)\%NSF_{(kn,kk)} = N_{(kn,kk)} \]  

(7)

The results obtained:
1. N(kk) = 4.4375
2. N(kk) = 4.375
3. N(kk) = 4.5
4. N(kk) = 4.75
5. N(kk) = 4.625

Table 10 Value CF and SF Work Satisfaction Aspect

| No | NIK            | Variable | KK01 | KK02 | KK03 | KK04 | KK05 | CF  | SF  |
|----|----------------|----------|------|------|------|------|------|-----|-----|
| 1  | NIK.1979030820080111001 |          | 4    | 4    | 4    | 4    | 4    | 4.5 | 4.25 |
| 2  | NIK.1987071020150320005 |          | 5    | 5    | 4    | 4    | 4    | 4.5 | 4   |
| 3  | NIK.1997020201902100102 |          | 4    | 4    | 4    | 4    | 4    | 4.66 | 4 |
| 4  | NIK.1999311192019021011 |          | 4    | 4    | 4    | 5    | 4    | 4.83 | 4.5 |
| 5  | NIK.19680602199032001   |          | 4    | 4    | 4    | 4    | 5    | 4.66 | 4.5 |

Based on calculating the total value of work satisfaction aspects, the total value for each candidate is based on Table 12.

Ranking Calculation
Ranking in Profile Matching method is the final result of determining the performance assessment of the employees of the Directorate General of Oil and gas. Ranking calculations can be calculated based on the formula below:

\[ \text{Ranking} = \frac{\sum N(kn) \times \text{Weight}}{\sum \text{Weight}} \]  

Table 11 Performance aspects Total Value

| No  | NIK            | CF | SF  | N(kn) |
|-----|----------------|----|-----|-------|
| 1   | NIK.1979030820080111001 | 4.83 | 4  | 4.6225 |
| 2   | NIK.1987071020150320005 | 4.66 | 4.75 | 4.6825 |
| 3   | NIK.1997020201902100102 | 4.83 | 4.25 | 4.6875 |
| 4   | NIK.1999311192019021011 | 5   | 3.75 | 4.687 |
| 5   | NIK.19680602199032001   | 4.5  | 3.25 | 4.1875 |

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The following are the results of ranking calculations in the selection of a coordinator:

1. Ranking = 4.57813
2. Ranking = 4.60563
3. Ranking = 4.64063
4. Ranking = 4.70313
5. Ranking = 4.2968

Table 13 Ranking

| NIK                                      | N(kn) | N(kk) | Score     | Ranking |
|------------------------------------------|-------|-------|-----------|---------|
| NIK.197903082008011001                   | 4.625 | 4.4375| 4.57813   | 4       |
| NIK.198707102015032005                   | 4.6825| 4.375 | 4.60563   | 3       |
| NIK.199702022019021002                   | 4.6875| 4.5   | 4.64063   | 2       |
| NIK.199311192019021001                   | 4.6875| 4.75  | 4.70313   | 1       |
| NIK.196806021990032001                   | 4.1875| 4.625 | 4.29688   | 5       |

Based on the ranking calculations for each candidate, the score is obtained for each candidate based on table 13.

Research Results

The last result of this study was the election of five people with the top rankings. In the 5th stage occuped by employees with NIK. 196806021990032001, in the 4th stage occupied by officers with NIK. 197903082008011001, in the 3rd rank occupied by officers with NIK. 198707102015032005, in the 2nd rank occupied by officers with NIK. 199702022019021002, and in the first stage occupied by the officers with NIK. 199311192019021001.

Score results can be seen in Figure 1 of the chart below:

![Figure 1. Charts Final Research Results](image)

CONCLUSION AND SUGGESTION

Conclusion

Based on the discussion of the assessment of the performance assessments of the Directorate General of Oil and gas by using the Profile Matching method, the conclusion that can be taken from the research in the process of determining the ranking of employees calculated using the Profile Matching method begins with determining the GAP, the weight of Gap value, grouping core factor and secondary factor, calculation of total value, and last ranking. From the research results, which are seen from aspects of performance and aspects of working culture, along with other criteria and using the Profile Matching method, employees with NIK. 199311192019021001. Get the first rank and have the chance to go up and get rewarded. Thus to get the performance results of an employee is not only seen from one criterion but also must have good performance and satisfaction work.

Suggestion

From the results of the research that has been done by the authors, then it can be proposed some advice, including for further research will be made program of decision support system in a larger scope as in the form of Web or Android. Preferably in the process of assessment of employee performance, all employees are included so that all employees are increasingly active in working to be elected to get a hike.

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