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Technical Report on Development of USES Specific Aptitude Test Battery for Utility Hand (paper goods)

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NOTE .

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\*Aptitude Tests; Cutting Scores; Job Analysis; Occupational Information; Occupational Tests; Paper (Material); \*Personnel Selection; \*Rating Scales; \*Semiskilled Occupations; Statistical Analysis; Supervisors; Task Performance; \*Test Construction;

Test Validity

**IDENTIFIERS** 

Utility Hands (raper Goods)

#### ABSTE.CT

Research resulting in the development of the Specific Aptitude Test. Battery for use in selecting inexperienced or untrained individuals for training as Utility\ Hands (paper goods) wasdescribed. Aptitudes measured were form perception, clerical. perception, and manual dexterity. Job analysis was performed by observation of the workers' performance on the job and in consultation with the workers' supervisors. A descriptive rating was used which consisted of seven items: (1) quantity of work, (2) quality of work, (3) accuracy of work; (4) job knowledge, (5) facility for work, (6) job versatility, and (7) all-around job ability. Statistical analysis of ratings were used to determine which aptitudes should be considered for inclusion in the battery. The objective was to develop a battery of 2, 3, or 4 aptitudes with. cutting scores at five point intervals at the point where about the same percent will meet the cutting scores as the percent placed in the high criterion group and which will maximize the relationship between the battery and the criterion. Appended was a list of organizations cooperating in the study, a descriptive rating scale, and a description of job duties. (BJG)

Technical Report on Development of USES Specific Aptitude Test Battery

For.

Utility Hand (paper goods) 539.883

S-466

Developed in Cooperation with the
Arkansas, California, Kentucky, South Carolina and Pennsylvania
State Employment Services

U S. DEPARTMENT OF HEALTH, EDUCATION & WELFARE NATIONAL INSTITUTE OF EDUCATION

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Development of USES Specific Aptitude Test Battery S-466

For

Utility Hand (paper goods,) 539.883

#### RESEARCH SUMMARY

This report describes the research which resulted in the development of the following Specific Aptitude Test Battery for use in selecting inexperienced or untrained individuals for training as Utility Hands:

## Áptitudes

## Cutting Scores

P - Form Perception 85 Q - Clerical Perception 95 M - Manual Dexterity 70

Sample:
78 Utility Hands (11 females and 67 males) employed in various companies (see Appendix 1). A total of 19 were minority group members (12 Blacks, 5 Spanish Surnamed, 1 Aleut and 1 French Canadian) and 59 were nonminority group members.

<u>Criterion</u>:
Supervisory ratings. Criterion data were collected during 1972, 1973 and 1974.

Design: Concurrent (test and criter(on data were collected at about the same time).

Validity:
Phi coefficient for total sample = .36 (P/2 < .005)

Comparison of Minority and Norminority Groups:
It was not technically feasible to compare the validity of the battery for minority and norminority groups as it was not possible to obtain data on a sufficient number of minority group workers to permit separate data analysis for minority and norminority groups.

#### JOB ANALYSIS

Job analysis was, performed by observation of the workers performance on the job and in consultation with the workers supervisors. On the basis of the job analysis, the job description shown in Appendix 3 was prepared. The job description was used to (1) select experimental samples of workers who were performing the job duties; (2) choose appropriate criteria or measures of job performance; (3) determine which aptitudes are critical, important or irrelevant to job performance (see Tables 1 and 4); and (4) provide information on the applicability of the test battery resulting from this research.

#### TARLE 1

## Qualitative Analysis

## Aptitude

## Rationale

P - Form Perception

Required to install flanges and center shaft in rolls of paper.

Q - Clerical Perception

Required to read scales accurately, to record weights, and to select properly marked materials to convey to the operators.

K - Motor Coordination

Required to use broom, shovel and scraper, to operate fork lift truck, and to use forced air hose.

M - Manual Dexterity

Required to lift and handle waste containers, to use hammer to install center shaft and flanges in roll of paper.

## EXPERIMENTAL TEST BATTERY

All 12 tests of the GATB, B-1002B, were administered.

#### CRITERION

The immediate supervisor rated each worker. The ratings were obtained by means of personal visits of State test development analysts who explained the rating procedure to the supervisors. Two ratings were obtained from each supervisor with an interval of at least two weeks between the ratings. Since sample members test scores are confidential, supervisors had no knowledge of the st scores of workers.

A descriptive rating scale was used. The scale (see Appendix 2) consists of seven items. Six of these items cover different aspects of job performance. The seventh item is a global item on the Utility Hand's "all-around" ability. Each item has five alternative responses corresponding to different degrees of job proficiency. For the purpose of scoring the items, weights of 1 to 5 were assigned to the responses. The total score on the rating scale is the sum of the weights for the seven items. The possible range for each rating is 7-35.

A review of the job description indicated that the subjects covered by the rating scale were directly related to important aspects of job performance.

- A: (luantity of work: Materials must be supplied and removed in a timely manner in order to avoid delays and down time.
- B Quality of work: Work areas must be kept neat and clean in order to avoid hazardous conditions.
- C Accuracy of work: Correct materials must be available in order to avoid delays and down time.
- D dob knowledge: The worker must have sufficient knowledge to provide appropriate materials to the machine operator.
- E Facility for work: Utility Hands perform a variety of job duties and must learn new tasks quickly.
- F Job versatility: Utility Hands are required to perform a variety of job duties.
- G "All-around" job ability: Utility Hands' value to the employer involves, a combination of aspects of job performance listed above.

A reliability coefficient of .84 was obtained between the initial ratings and the reratings, indicating a significant relationship. Therefore, the scores of the two ratings were combined. A correlation of .40 between experience and the combined criterion was observed, which indicates that a considerable amount of the variance in the combined criterion is related to variance in amount of job experience. Therefore, an adjusted criterion score was used as the final criterion which was computed as follows: An estimated criterion score was computed using the usual regression equation:

This estimated criterion score was subtracted from the observed criterion score. A constant of 50 was added to avoid negative numbers and the result truncated to a whole number.

This adjustment has the effect of removing from the criterion that part of its variance which is predictable from knowledge of amount of experience. This is appropriate as the battery will be used to predict job performance of inexperienced workers. The mean of the final criterion is 49.5 with a standard deviation of 8.1. The relationship between the final criterion and age, education and job experience is shown in Table 2.

#### TABLE 2

Means, Standard Deviations (SD) and Pearson
Product-Moment Correlations with the Criterion (r) for
Age, Education and Experience

| Age (years) 26,8 9.2 .12 18-53 Education (years) 11.5 1.4 .04 7-14            | •          |   |
|---|------------|---|
| Education (years) 11%5 1.4 .04 7-14<br>Experience (months 21.3 23.6 .01 2-128 | " <b>"</b> | P |

About one-third of the workers are considered to be marginal workers. Therefore, the criterion distribution was dichotomized so as to include about one-third of the sample in the low criterion group and the remainder in the high criterion group. The criterion cutting score was set at 46 which places 35% in the low criterion group and 67% in the high criterion group.

#### SAMPLE

The sample consisted of 78 Utility Hands (11 females and 67 males) employed in various companies (see Appendix 1). A total of 19 were minority group members (12 Blacks, 5 Spanish Surnamed, 1 Aleut, and 1 French Canadian) and 59 were nonminority group members. The means and standard deviations for age; education and experience of the sample members are shown in Table 2. All workers had at least 2 months of experience in their current job and none were test-selected.

## STATISTICAL RESULTS

#### TABLE 3

Statistical Results.

N = 78

| <u>Aptitude</u>   | <u>Mean</u> <u>SD</u>   | <u>r Range</u>  |
|---|---|---|
| G - General Learning Ability V - Verbal Aptitude N - Numerical Aptitude S - Spatial Aptitude P - Form Perception Q - Clerical Perception K - Motor Coordination | 89.9 17.3<br>90.4 14.1<br>89.0 17.5<br>96.2 20.9<br>104.4 22.0<br>105.1 14.4<br>99.8 17.5 | .12 65-127<br>.18 52-128<br>.11 55-147<br>.20 39-149<br>.25* 69-138 |
| F - Finger Dexterity M - Manual Dexterity   | 95.4 23.5<br>102.4 20.2   | .10 27-149  |

\* Significant at the .05 level

Table 4 summarizes the qualitative analysis and statistical results shown in Tables 1 and 3 and shows the aptitudes considered for inclusion in the battery.

TABLE 4

# Summary of Qualitative and Quantitative Data

|   |                | • | •             | , | Apti | tude | S | 4 _     |     |
|---|----------------|---|---------------|---|------|------|---|---------|-----|
| Type of Evidence                                  | G              | V | N             | S | P    | Q    | K | F       | М   |
| "Critical" on Basis<br>of Job Analysis            |                | , |               | - | 2    |      |   |         | ,   |
| "Important" on basis<br>of Job Analysis           |                |   |               |   | X    | X    | X |         | . X |
| "Irrelevant" on Basis<br>of Job Analysis          | ,              |   | <del></del> - |   |      |      |   |         | -   |
| Relatively High<br>Mean '                         | • <b>• •</b> • |   | ·             | 3 | X    | Х    | · | ار<br>ا | X   |
| Relatively Low Standard<br>Deviation              |                | X |               |   | ,    | Х    |   |         | · · |
| Significant Correlation with Criterion            |                | _ |               | · |      | 。 X  |   |         |     |
| Aptitudes Considered for Inclusion in the Battery |                |   |               |   | P    | Q    | c | . ,     | M   |

The information in Table 4 indicates that the following aptitudes should be considered for inclusion in the battery: P, Q, and M. The objective is to develop a battery of 2, 3 or 4 aptitudes with cutting scores set at five point intervals at the point (a) where about the same percent will meet the cutting scores as the percent placed in the high criterion group and (b) which will maximize the relationship between the battery and the criterion. The cutting scores are set at approximately one standard deviation below the mean aptitude scores of the sample, with deviations above or below these points to achieve the objectives indicated above.

The following battery resulted:

|     | Aptitudes .   | ٥  | <u>vu</u> | LINE SCO       |
|-----|---|----|-----------|----------------|
| Q - | Form Perception<br>Clerical Perception<br>Manual Dexterity, | ٠. | . :       | 85<br>95<br>70 |



# VALIDITY OF THE BATTERY

## ' TABLE 5

## Validity of Battery

| 6                                   | Below<br>Cutting Secres             | Meeting<br>Cutting Sco | orès Total |
|-------------------------------------|-------------------------------------|------------------------|------------|
| High Criterion -                    | 10                                  | 42                     | 52         |
| Group<br>Low Criterion              | 15                                  | 11                     | 26         |
| Group Total                         | 25                                  | 53                     | , 78       |
| Phi coefficient<br>Significance lev | = .36 (Yates' co<br>e1 = P/2 < .005 | orrected)              | •          |

# OCCUPATIONAL APTITUDE PATTERN

This occupation was incorporated into OAP-52 in Section II of the 1970 edition of the Manual for the USES General Aptitude Test Battery with an asterisk (\*) since (1) the battery included the same aptitudes as those in the OAP, (2) the cutting scores of the aptitudes in the battery were within ten points of the cutting scores of the aptitudes in the OAP and (3) a significant phi coefficient was obtained between the criterion and the OAP-52 cutting scores of P-80, Q-90 and M-80. A phi coefficient of .20 (P/2 < .05) was obtained for this sample.

## APPENDIX 1

# Organizations Cooperating in the Study

American Can Company, Dixie Products Division, Fort Smith, Arkansas American Can Company, Dixie Products Division, Anaheim, California Owens-Illinois, Lily-Tulip Division, Riverside, California Solo Cup Company, Santa Paula, California Owens-Illinois, Lily-Tulip Division, Bardstown, Kentucky American Can Company, Dixie Products Division, Lexington, Kentucky American Can Company, Dixie Products Division, Easton, Pennsylvania American Can Company, Dixie Products Division, Darlington, South Carolina

# APPENDIX 2

# UNITED STATES EMPLOYMENT SERVICE

DESCRIPTIVE RATING SCALE
(For Aptitude Test Development Studies)

| rections: Please read the "Suggestions to Raters" and t   | D.O.T. Title and Gode  |
|---|--|
| rections: Please read the "Suggestions to Raters" and t   | ·  |
|   | then fill in the items listed below. In making your ratings, only one  |
|   | hecked for each question.  |
|   | IONS TO RATER.   |
| e are asking you to rate the job performance of the peopl<br>hich we can compare the test scores in this study. The r<br>ry little value. You should try to give the most accurate  | le who work for you. These ratings will serve as a "yardstick" against<br>ratings must give a true picture of each worker or this study will have<br>ratings possible for each worker.   |
| rese ratings are strictly confidential and won't affect y   | our workers in any way. Neither the ratings nor test scores of any   |
| orkers will be shown to anybody in your company. We rethose workers who are in the test study.  | are interested only in "testing the tests." Ratings are needed only,   |
| orkers who have not completed their training period, or   | who have not been on the job or under your supervision long enough   |
| r you to know how well they can perform this work shows asked to rate any such workers.   | uld not be rated. Please inform the test technician about this if you  |
| making ratings, don't let general impressions or some   | outstanding trait affect your judgment. Try to torget your personal  |
| elings about the worker. Rate him only on the way Re  | does his work. Here are some more points which might help you  |
| Please read all directions and the rating scale thorough  | hly before rating.   |
| For each question compare your workers with "worke  | rs in general" in this job. That is, compare your workers with other   |
| orkers on this job that you have known. This is very imperatings to be based on the same standard in all the pla  | portant in small plants where there are only a few workers. We want  |
| e. ratings to be based on the same standard in an the pic   | on at a time. The questions ask about different abilities of the workers.  |
| A suggested method is to tate an workers on one decade  | for example, a very slow worker may be accurate. So rate all workers   |
| worker may be good in one ability and boor in another:  | 101 CAMILIPIC, & VCLY SION WOLKEL HILLY DE ACCULATE. DO LATE MIN HOLMEL  |
| worker may be good in one ability and poor in another:  the first question, then rate all workers on the second   | question, and so on.   |
| n the first question, then rate all workers on the second<br>Practice and experience usually improve a worker's ski   | question, and so on.  III However, one worker with six months' experience may be a faster  |
| n the first question, then rate all workers on the second<br>Practice and experience usually improve a worker's ski   | question, and so on.  Ill However, one worker with six months' experience may be a faster e one worker as poorer than another because he has not been on the   |
| n the first question, then rate all workers on the second<br>Practice and experience usually improve a worker's ski<br>orker than another with six years' experience. Don't rate<br>to as long.   | question, and so on.  Ille However, one worker with six months' experience may be a faster e one worker as poorer than another because he has not been on the  |
| n the first question, then rate all workers on the second<br>Practice and experience usually improve a worker's ski<br>orker than another with six years' experience. Don't rate<br>ib as long.   | question, and so on.  Ill However, one worker with six months' experience may be a faster e one worker as poorer than another because he has not been on the over a period of several weeks or months. Don't rate just on the basis  |
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| Practice and experience usually improve a worker's ski<br>orker than another with six years' experience. Don't rate<br>ob as long. A Rate the workers according to the work they have done<br>from "good" day, or one "bad" day or some single incide.<br>Rate only the abilities listed on the rating sheet. Do no<br>romptness and honesty influence your ratings. Although<br>tudy as a "yardstick" against which to compare aptitude  | question, and so on.  ill: However, one worker with six months' experience may be a faster e one worker as poorer than another because he has not been on the over a period of several weeks or months. Don't rate just on the basis dent. Think in terms of each worker's usual or typical performance, of let factors such as cooperativeness, ability to get along with others, these aspects of a worker are important, they are of no value for this test scores.   |
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| Practice and experience usually improve a worker's ski orker than another with six years' experience. Don't rate is as long.  Rate the workers according to the work they have done if one "good" day, or one "bad" day or some single incidence only the abilities listed on the rating sheet. Do no romptness and honesty influence your ratings. Although they are "yardstick" against which to compare aptitude lame of worker (print).  Example 1. Female 1. See him at work all the time.  See him at work several times a day. | question, and so on.  ill: However, one worker with six months' experience may be a faster e one worker as poorer than another because he has not been on the over a period of several weeks or months. Don't rate just on the basis dent. Think in terms of each worker's usual or typical performance, of let factors such as cooperativeness, ability to get along with others, these aspects of a worker are important, they are of no value for this test scores.  (First)  Under, one month.  One to two months. |

ERIC Full Best Provided by ERIC

| ۹.  | How much work can be get done? (Worker's ability to make efficient use of his ame and to at high speed.)   | work     |
|-----|--|----------|
|     | 1. Capable of very low work output. Can perform only at an unsatisfactory pace.  |          |
| ٠,  | 2.   Capable of low work output. Can perform at a slow pace.   |          |
|     | 3.   Capable of fair work output. Can perform at an acceptable but not fast pace.  |          |
|     | 4. 🖂 Capable of high work output. Can perform at a fast pace.  |          |
| ₿.  | 5. 🖾 Capable of very high work output. Can perform at an unusually fast pace.<br>How good is the quality of his work? (Worker's ability to do high-grade work which meets q<br>standards.) | uality   |
|     | 1.   Performance is infector and almost never meets minimum quality standards.   | ί.       |
|     | 2. The grade of his work could stand improvement. Performance is usually acceptable somewhat inferior in quality.  | e but    |
|     | 3.   ?erformance is acceptable but usually not superior in quality.  |          |
| l . | 4.   Performance is usually superior in quality.   |          |
|     | 5.   Performance is almost always of the highest quality.  |          |
| C.  | How accurate is he in his work? (Worker's ability to avoid making mistakes.)   |          |
|     | 1.   Makes very many misfakes. Work needs constant checking.   |          |
| ,^  | 2.  Makes frequent mistakes. Work needs more checking than is desirable.   |          |
|     | 3.  Makes mistakes occasionally. Work needs only normal checking.  |          |
|     | 4.   Makes few mistakes. Work seldom needs checking.   | •        |
|     | 5.   Rarely makes a mistake. Work almost never needs checking.   | ,        |
| D.  | How much does he know about his job? (Worker's understanding of the principles, equipmaterials and methods that have to do directly or indirectly with his work.)                          | ment,ª ' |
| Ļ   | 1. Has very limited knowledge. Does not know enough to do his job adequately.  |          |
|     | 2. Has little knowledge. Knows enough to "get by."   | - *      |
|     | 3.   Has moderate amount of knowledge. Knows enough to do fair work.   |          |
|     | 4.   Has broad knowledge. Knows enough to do good work.  |          |
|     | 5. Has complete knowledge. Knows his job thoroughly.   | •<br>    |



| E. How much aptitude or facility does he have for this kind of work? (Worker's adepthess or knack for performing his job easily and well.)      |       |
|---|-------|
| 1. Ullias great difficulty doing his job. Not at all suited to this kind of work.   | J     |
| 2. 14 sually has some difficulty doing his job. Not too well suited to this kind of work.   | :     |
| 3. Does his job without too much difficulty. Fairly well suited to this kind of work:   | ,     |
| 4. Usually does his job without difficulty. Well suited to this kind of work.   | e.    |
| 5. Does his job with great case. Exceptionally well suited for this kind of work.   | <br>• |
| F. How large a variety of job duties can be perform efficiently? (Worker's ability to bandle severa different operations in his work.)          | i .   |
| ].   Cannot perform different operations adequately.  |       |
| 2.   Can perform a limited number of different operations efficiently.  |       |
| 3 Can perform several different operations with reasonable efficiency.  | . :   |
| 4.   Can perform many different operations efficiently.   |       |
| 5.   Can perform an unusually large variety of different operations efficiently.  |       |
| G. Considering all the factors already rated, and only these factors, how acceptable is his work (Worker's "all around ability" to do his job.) | ?     |
| 1.   Would be better off without him. Performance usually not acceptable.   |       |
| 2.  Of limited value to the organization. Performance somewhat inferior.  |       |
| 3.   A fairly proficient worker. Performance generally acceptable.  |       |
| 4.   A valuable worker. Performance is usually superiori  |       |
| - 5.   An unusually competent worker. Performance almost always top notch.  | J     |
| Rated by Date   | - ·   |
| Rated by Date   | •     |
| Company or organization Location Location   | ••    |



#### APPENDIX 3

Utility Hand (paper goods) 539.883

#### JOB DUTLES

Cleans floors, removes waste materials, installs and replaces rolls of paper, obtains supplies for machine operator, removes cartons, and assists operator as required.

- \*Cleans floors: Scrapes wax from floor using long handled scraper, sweeps floor using broom, shovels trash into container.
- \*Removes waste: Removes waste container from machine and replaces with empty container. Weighs waste and records weight. Empties container into waste bin cart.
- \*Installs and replaces rolls of paper: Installs center shaft and flanges in roll of paper using hammer. Pushes hand operated roll carrier to install roll in roll stand. Removes empty case from roll stand. Removes center shaft and flanges from empty core.

Obtains supplies for machine operator: Locates empty cartons in accord with production and schedule requirements. Lifts cartons onto fork lift and trucks to machine. Lifts cartons onto conveyor. Carries cartons of materials such as cup-top-protector or plastic bags to machine operator.

Removes cartons: Brushes glue on top of filled cartons and seals carton. Lifts and stacks cartons. Removes stacks of cartons using hand or power operated fork-lift truck.

Assists operator: Uses forced air hose to assist in cleaning shut down machines. Assists in lifting machine parts when necessary.



<sup>\*</sup>These job duties were designated as critical since they must be performed competently if the job is to be performed in a satisfactory manner. Utility Hands spend about 75% of their working time performing these duties.