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C-40 Relation To Motor Mechanics Course Grades Reprint # 028
and Comparison With Mechanical Movement Test
(Data only).

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TABLE I
MOTOR MECHANICS COURSE GRADES AS RELATED TO C-40 SCORES

14 AGO-28

C-40 Total Score	GRADE MOTOR MECHANICS COURSE	Number of Persons in this interval or higher intervals with grade 85 or less	Number of Persons in this interval or lower intervals with grade 90 or more
115-119	100	0	74
110-114	93, 96	0	73
105-109	91, 98, 88, 95	0	71
100-104	94, 92, 92, 91	0	68
95-99	96, 96, 88	0	64
90-94	94, 97, 93, 89, 91, 92, 94, 90, 84	1	62
85-89	96, 94, 90	1	54
80-84	92, 90, 90, 91, 97, 80, 93, 94, 95, 96, 94, 2	3	51
75-79	94, 87, 92, 96, 98, 95, 93, 94, 82	3	41
70-74	85, 94, 92, 89, 95, 90, 92, 88, 85, 89	6	33
65-69	96, 93, 82, 86, 87, 94, 94	6	33
60-64	91, 94, 95, 88, 93, 91, 85, 76, 79, 81, 91, 86, 88, 87, 87, 99, 87, 83, 95, 88	11	24
55-59	95, 86, 81, 94, 81, 93, 85, 79, 90, 88, 95, 92	16	16
50-54	84, 92, 89	16	16
45-49	35, 94, 95, 87, 86, 93, 86, 94, 95, 84,	19	9
40-44	86, 78, 88, 88, 94, 86, 87	23	3
35-39	82, 84, 89, 85, 92, 88, 81, 89	30	2
30-34	75, 85, 81, 78, 86, 84, 91, 83, 82	35	1
25-29	75, 80, 75, 78, 81, 97	38	0
	85, 75, 84	43	0
	80, 80, 78, 89, 85, 85	43	0
	89	43	0

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*Total score equals right minus 1/4 wrongs.

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A critical score of between 50 and 60 on C-40 would exclude about half of the persons whose final grade is 85 or less and would bar only a small number of persons whose final grade is 90 or more.

The tabulation is of scores and grades of men tested in December 1940 at the Holabird Quartermaster Depot.

TABLE II
CORRELATION BETWEEN MOTOR MECHANICS
COURSE GRADES AND C-40

	<u>Mean</u>	<u>S.D.</u>	
Grades	88.8	5.8	
C-40	68.0	19.2	R = .57

TABLE III
MOTOR MECHANICS COURSE GRADES AS RELATED TO SCORES
ON AUTOMOTIVE SECTION OF C-40

<u>Automotive Score</u>	<u>Grade Motor Mechanics Course</u>	<u>Number of persons in this interval or higher in- tervals with a grade of 85 or less</u>	<u>Number of persons in this interval or lower inter- vals with a grade of 90 or more</u>
29	100, 89	0	74
28	97, 95, 93, 93, 81, 98, 85, 95, 90	2	73
27	84	3	66
26	94, 94, 95, 96, 94, 87, 89	3	66
25	94, 94, 91, 97, 95, 86, 88, 96, 91, 94, 93, 83, 88	4	61
24	85, 88, 92, 90, 90, 76, 89, 81, 89, 92, 93, 91, 88, 94, 92, 94, 94	7	52
23	85, 94, 95, 91, 96, 92, 87, 78, 80, 93, 94, 94, 90, 87, 92, 91, 87, 98, 87, 90, 92, 93, 83, 93, 86, 94, 90, 82	12	42
22	85, 96, 93, 95	13	24
21	80, 86, 95, 93, 94, 87, 92, 92, 96, 82	15	21
20	81, 94, 80, 75, 95, 79, 92, 86, 95, 88, 85, 86, 91, 79, 78, 99, 95, 94, 89, 87, 88	23	15
19	85, 93, 84, 88, 96, 84, 92, 85	27	7
18	94, 86, 86, 91, 89, 88	27	4
17	75, 88	28	2
16	91, 75, 84, 86, 81, 81	32	2
15	75, 82	34	1
14	85, 85, 84, 78, 88, 85	39	1
13	80, 97	40	1
12		40	0
11		40	0
10	82, 73, 89	42	0
9	84	43	0
8		43	0
7		43	0
6	89	43	0

A critical score set at 17, 18, or 19 would exclude a considerable number of persons whose final grade is 85 or less and only a small number of persons whose final grade is 90 or more.

TABLE IV
CORRELATION BETWEEN MOTOR MECHANICS COURSE GRADES
AND AUTOMOTIVE SECTION C-40

	Mean	S.D.	
Grades	88.8	5.8	
Automotive			$r = .40$
Section C-40	21.4	4.4	

AVERAGE AND VARIABILITY IN MECHANICAL TEST SCORES
FOR HOLABIRD QUARTERMASTER DEPOT COMPARED
WITH OTHER STATIONS

<u>Station</u>	<u>Number of Men</u>	<u>Average</u>	<u>Standard Deviation</u>	<u>Range</u>
Mechanical Movements				
Holabird	144	11	10.3	0-56
Ordnance	479	11	11.8	0-56
(Miscellaneous Stations)				
Mechanical Information C40 Total				
Holabird	152	68	19.6	26-121
Ft. Meade	106	52	27.6	0-114
Mechanical Information C40 Automotive				
Holabird	152	21	18.6	6-29
Ft. Meade	106	15	7.6	0-28

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March, 1941

Table

Correlations with Motor Mechanics Course Grade:

Mechanical Movements	.27
C40	.57
C40-Automotive	.40