MAN195

Model 32521

Hand Tool Dexterity Test Owner's / Operator's Manual



Lafayette Instrument®

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Hand Tool Dexterity Test Model 32521

The Hand Tool Dexterity Test Model # 32521 can be used as a general assessment of an individual's skill in using ordinary mechanics tools. Results of the test have been used to determine vocational interest and as an indicator of success where job/tasks require the use of these or similar tools. Reference literature suggests the use of this test to assess performance when hands will be covered when using the tools incorporated in this test. The normative data provided are for guidance only and the user should refer to published literature for additional applications of the test.

PROCEDURE and SCORING

The score on this test is the amount of time that it takes the examinee to remove the nuts and bolts from the left side and mount them on the right side. Make sure that the bolts are mounted on the left side with the bolt heads on the inside.

The test administrator records time by starting the stopwatch as soon as the examinee picks up the first wrench. The examinee removes all of the bolts on each row on the left side, starting at the top row, working down to the bottom row. All of the bolts on each row must be removed before moving on the next row. Once the bolts are loosened with the wrench, the fingers can then be used to further loosen and remove the bolts.

The examinee then mounts the bolts on the right side, starting from the bottom row, working their way to the top row, making sure that the bolt heads are on the inside. All of the bolts on each row must be mounted completely before moving on to the next row. The examinee must tighten the bolts tight enough so that they can not be removed with the fingers.

As soon as the last bolt is tightened on the right side, the examiner stops the stopwatch & records the time.

TABLE 1:

Raw Scores Corresponding to Selected Percentiles on the Hand-Tool Dexterity Test for Large Groups

Test Scores Given in Minutes and Seconds

	Transportation Systemin the Northeast ^a	at a Manufactu in New	ntenance Positions Iring Company York ^b	Vocational Evaluation and Guidance Center in Illinois ^c	Workers in a Vocational Rehabilitation Program in California ^d	Percentile	
		Male	Female				
99	4'41" and below	4'22" and below	7'14" and below	4' and below	4'50" and below	99	
97	4'42" - 4'57"	4'23" - 5'08"	7'15" - 7'21"	5′	4′51″ - 5′07″	97	
95	4'58" - 5'18"	5′09″ - 5′37″	7′22″ - 7′49″	-	5′08″ - 5′47″	95	
90	5'19" - 5'28"	5′38″ - 5′59″	7′50″ - 8′06″	-	5′48″- 6′13″	90	
85	5'29" - 5'40"	6′00″ - 6′17″	8'07" - 8'12"	6′	6′14″- 6′28″	85	
80	5'41" - 5'47"	6′18″ - 6′39″	8′13″ - 8′30″	-	6'29"- 6'38"	80	
75	5'48" - 5'55"	6'40" - 6'49"	8'31" - 8'49"	-	6'39″	75	
70	5′56″ - 6′00″	6′50″ - 7′00″	8'48" - 8'57"	7′	-	70	
65	6'01" - 6'08"	7′01″ - 7′08″	8'58" - 9'15"	-	-	65	
60	6'09" - 6'16"	7′09″ - 7′20″	9'16" - 9'34"	-	-	60	
55	6'17" - 6'24"	7'21" - 7'32"	9'35" - 9'56"	8′	-	55	
50	6'25" - 6'38"	7'33" - 7'49"	9'57" - 10'16"	-	-	50	
45	6'39" - 6'44"	7′50″ - 8′13″	10'17" - 10'31"	9'	6'40" - 6'43"	45	
40	6'45" - 6'53"	8'14" - 8'23"	10'32" - 11'24"	-	6'44" - 6'51"	40	
35	6′54″ - 7′02″	8'24" - 8'42"	11'25" - 11'31"	-	6′52″ - 7′11″	35	
30	7'03" - 7'12"	8'43" - 9'00"	11'32" - 11'47"	10′	7'12" - 7'20"	30	
25	7'13" - 7'17"	9'01" - 9'12"	11'48" - 12'20"	11′	7′21″ - 7′28″	25	
20	7'18" - 7'23"	9'13"-9'44"	12'21" - 12'43"	12'	7′29″ - 7′51″	20	
15	7'24" - 7'40"	9'45" - 10'09"	12'44" - 12'59"	13'	7′52″ - 8′35″	15	
10	7'41" - 8'24"	10'10" - 10'54"	13′00″ - 15′17″	14'- 17'	8'36" - 10'15"	10	
5	8'25" - 8'39"	10'55" - 12'44"	15'18" - 16'25"	18'-22'	10'16" - 12'16"	5	
3	8'40" - 10'18"	12'45" - 13'14"	16'26" - 17'48"	23'- 27'	12'17" - 12'56"	3	
1	10'19" and above	13'15" and above	17'49" and above	28' and above	12'57" and above	1	
N	187	151	110	149	222	N	
Mean	6'40"	8'09"	10'39"	9'30″	7'19"	Mean	
SD	1'12"	2'13"	2'35″	5′36″	1′50″	SD	

^a All male; all white

^c All male; race not reported.

^b Race not reported

^d All male; all white

TABLE 2:

Raw Scores Corresponding to Selected Percentiles on the Hand-Tool Dexterity Test for Medium Size Groups Test Scores Given in Minutes and Seconds

Group	Sex	Race	Ν	Percentile	Raw Score
Back injured workers in a vocational rehabilitation	Male	Minority	65	75	6′39″
program in California				50	6'39″
				25	7'21″
				Mean	7'22″
				SD	1'39″
Injured workers in a vocational rehabilitation program in California	Male	White	74	75	6'05″
program in California				50	6'39"
				25	7'25"
				Mean	7'17"
				SD	2′26″
Students in prevocational adult basic education	Male	Minority	86	75	5′38″
classes in Wisconsin				50	6'22″
				25	7'45″
				Mean	6'45″
				SD	1′51″
Students in aviation mechanics program at a	Male	41 White,	73	75	6'35″
vocational high school in New York		32 Minority		50	7'53″
				25	8′42″
				Mean	7'47"
				SD	1'30″
Clients at a vocational evaluation and guidance center in Illinois	Female	Not Reported	91	75	8'00"
center in illinois				50	9'00"
				25	13'00"
				Mean	10'54"
				SD	4'48"
Mentally retarded students (age 16-21) in special	Male	38 White,	54	75	9'57"
education programs in Missouri		16 Minority		50	13'00″
				25	18'30″
				Mean	17'44″
				SD	15'08"

TABLE 3:

Means and Standard Deviations of Hand-Tool Dexterity Test Scores for Various Groups

Mainemance Mechnics at a mastransportation system in the NortheastMaleWhite187640°112° 112°Applicants for assembly and maintenance positions at a manufacturing company in New YorkMaleNot Reported10°10°3°23°s'Texnical TraineesFemaleNot Reported10°10°3°23°s'Texnical Trainees37 White, 11 Minority48651°117°In basic ducation classes in WisconsinMale37 White, 11 Minority48651°177°In basic ducation classes in WisconsinMaleMaleMinority80°646°152°At a vocational evaluation chartsFemaleNot Reported149°93°53°At a vocational evaluation center for the handicapped In IndianaMaleNot Reported91°1054°448°At a vocational evaluation program in California:MaleWhite22°71°150°Injured WorkersMaleWhite, 10 Minority262211°931°Injured WorkersMaleWhite301316°27°In a vocational rehabilitation program in California:MaleWhite2671°14°With duck injuriesMaleWhite30916°21°14°with arw/hand injuriesMaleWhite36916°21°21°With arw/hand injuriesMaleWhite3671°21°22°MaleWhite3010°2 <t< th=""><th>Group</th><th>Sex</th><th>Race</th><th>N</th><th>Mean</th><th>SD</th></t<>	Group	Sex	Race	N	Mean	SD																																																																																																																																																																	
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^a Included in Table 1 ^b Included in Table 2 ^d Neurologically impaired trainees

^e Mixed group, but predominantly mentally handicapped

^c Sensorially impaired trainees

TABLE 4:

Norms for Industrial and Educational Groups ^a

Percentile	Male Job Applicants in a Southern Plant	Male Adults at a Vocational Guidance Center	Airline Engine Mechanics	Apprentice Welders in a Steel Company	Percentile	
99	4'21" and below	4'48" and below	4'02" and below	4'17" and below	99	
97	4'22" - 4'34"	4'49" - 5'08"	4′03″ - 4′32″	4'18" - 4'20"	97	
95	4'35" - 4'48"	5′09″ - 5′26″	4'33" - 4'44"	4'21" - 4'32"	95	
90	4'49" - 5'05"	5′27″ - 5′46″	4'45" - 4'49"	4'33" - 4'49"	90	
85	5′06″ - 5′17″	5'47" - 6'00"	4′50″ - 4′53″	4′50″ - 5′02″	85	
80	5′18″ - 5′28″	6′01″ - 6′09″	4′54″ - 4′59″	5′03″ - 5′13″	80	
75	5'29" - 5'39"	6'10" - 6'16"	5'00" - 5'12"	5'14" - 5'17"	75	
70	5'40" - 5'48"	6′17″ - 6′23″	5'13" - 5'23"	5'18" - 5'23"	70	
65	5'49" - 5'57"	6'24" - 6'31"	5'24" - 5'30"	5'24" - 5'35"	65	
60	5′58″ - 6′06″	6'32" - 6'40"	5′31″ - 5′38″	5′36″ - 5′44″	60	
55	6′07″ - 6′14″	6'41" - 6'49"	5'39" - 5'43"	5'45" - 5'50"	55	
50	6'15" - 6'23"	6′50″ - 6′59″	5'44" - 5'45"	5′51″ - 5′56″	50	
45	6'24" - 6'35"	7'00" - 7'11"	5'46" - 5'47"	5′57″ - 6′00″	45	
40	6'36" - 6'47"	7′12″ - 7′23″	5'48" - 5'51"	6′01″ - 6′04″	40	
35	6′48″ - 7′00″	7′24″ - 7′37″	5′52″ - 6′01″	6′05″ - 6′13″	35	
30	7'01" - 7'15"	7′38″ - 7′51″	6′02″ - 6′16″	6′14″ - 6′24″	30	
25	7′16″ - 7′30″	7′52″ - 8′09″	6′17″-6′24″	6′25″ - 6′29″	25	
20	7'31" - 7'48"	8'10" - 8'31"	6'25" - 6'30"	6'30" - 6'34"	20	
15	7'49" - 8'11"	8′32″ - 8′56″	6′31″ - 6′52″	6′35″ - 6′53″	15	
10	8'12" - 8'47"	8'57" - 9'33"	6'53" - 7'21"	6'54" - 7'17"	10	
5	8'48" - 9'27"	9'34" - 10'30"	7′22″ - 7′48″	7′18″ - 7′29″	5	
3	9'28" - 10'34"	10'31" - 11'40"	7'49" - 8'08"	7′30″ - 7′41″	3	
1	10'35" and above	11'41" and above	8'09" and above	7'42" and above	1	
N	1123	441	50	50	N	
Mean	6'33″	7'14"	5'47″	5′50″	Mean	
SD	1'25″	1'32″	0'55″	0'51″	SD	

^a Since the raw score on the Hand-Tool Dexterity Test is the amount of time required to complete the test, norms are presented in the form of minutes and seconds.

Thus for the group of male job applicants in a southern plant, the 40th percentile corresponds to all time scores falling between 6 minutes and 36 seconds, and 6 minutes and 47 seconds.

TABLE 4 (continued):

Norms for Industrial and Educational Groups ^a

Percentile	High School Dropouts in a Metropolitan Center	Boys at a Vocational High School	Employees and Applicants in a Manufacturing Company	Electrical Maintenance Workers	Percentile
99	4'57" and below	5'25" and below	6'39" and below	4'41" and below	99
97	4′58″ - 5′28″	5′26″ - 5′48″	6'40" - 6'55"	4'42" - 5'05"	97
95	5'29" - 5'51"	5′49″ - 6′07″	6′56″ - 7′17″	5′06″ - 5′18″	95
90	5′52″ - 6′18″	6′08″ - 6′30″	7′18″ - 7′39″	5'19" - 5'31"	90
85	6′19″ - 6′45″	6'31" - 6'46"	7′40″ - 7′56″	5′32″ - 5′38″	85
80	6'46" - 7'15"	6′47″ - 7′01″	7′57″ - 8′13″	5′39″ - 5′47″	80
75	7′16″ - 7′34″	7′02″ - 7′15″	8'14" - 8'28"	5'48" - 5'58"	75
70	7'35" - 7'54"	7′16″ - 7′29″	8'29" - 8'40"	5'59" - 6'03"	70
65	7′55″ - 8′09″	7'30" - 7'42"	8'41" - 8'54"	6'04" - 6'08"	65
60	8'10" - 8'26"	7′43″ - 7′58″	8'55" - 9'08"	6'09" - 6'15"	60
55	8'27" - 8'44"	7′59″ - 8′16″	9′09″ - 9′20″	6'16" - 6'23"	55
50	8'45" - 8'55"	8'17" - 8'32"	9'21"-9'38"	6'24" - 6'23"	50
45	8'56" - 9'07"	8'33" - 8'46"	9'39" - 9'55"	6'31" - 6'38"	45
40	9′08″ - 9′21″	8'47" - 8'59"	9'56" - 10'07"	6′39″ - 6′47″	40
35	9'22" - 9'32"	9'00" - 9'15"	10'08" - 10'21"	6'48" - 6'54"	35
30	9'33" - 9'45"	9'16" - 9'32"	10'22" - 10'42"	6'55" - 6'59"	30
25	9'46" - 10'02"	9′33″ - 9′58″	10'43" - 11'05"	7′00″ - 7′10″	25
20	10'03″ - 10'23″	9′59″ - 10′33″	11'06" - 11'39"	7'11″-7'25″	20
15	10'24" - 10'54"	10'34" - 11'13"	11'40" - 12'18"	7'26" - 7'43"	15
10	10'55" - 11'49"	11'14" - 12'20"	12'19" - 13'09"	7'44" - 8'10"	10
5	11'50" - 13'53"	12'21" - 13'47"	13'10" - 14'34"	8'11" - 8'42"	5
3	13'54" - 16'44"	13'48" - 15'18"	14'35" - 16'30"	8'43" - 9'01"	3
1	16'45" and above	15'19" and above	16'31" and above	9'02" and above	1
N	153	360	338	122	N
Mean	8'53"	8'44"	9'52"	6'33"	Mean
SD	2'18"	2'16"	2'16"	1′00″	SD

^a Since the raw score on the Hand-Tool Dexterity Test is the amount of time required to complete the test, norms are presented in the form of minutes and seconds.

Thus for the group of male job applicants in a southern plant, the 40th percentile corresponds to all time scores falling between 6 minutes and 36 seconds, and 6 minutes and 47 seconds.

Terms and Conditions

LIC Worldwide Headquarters

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Shipments cannot be received at the PO Box. The items should be packed well, insured for full value, and returned along with a cover letter explaining the malfunction. An estimate of repair will be given prior to completion ONLY if requested in your enclosed cover letter. We must have a hard copy of your purchase order by mail or fax, or repair work cannot commence for non-warranty repairs.

Damaged Goods

Damaged instrumentation should not be returned to Lafayette Instrument prior to a thorough inspection. If a shipment arrives damaged, note damage or delivery bill and have the driver sign it to acknowledge the damage. Contact the delivery service, and they will file an insurance claim. If damage is not detected at the time of delivery, contact the carrier/shipper and request an inspection within 10 days of the original delivery. Please call the Lafayette Instrument Customer Service Department for repair or replacement of the damaged merchandise.

Limited Warranty

Lafayette Instrument Company warrants equipment manufactured by the company to be free of defects in material and workmanship for a period of one year from the date of shipment, except as provided hereinafter. The original manufacturer's warranty will be honored by Lafayette Instrument for items not manufactured by Lafayette Instrument Company, i.e. resell items. This assumes normal usage under commonly accepted operating parameters and excludes consumable products.

Warranty period for repairs or used instrumentation purchased from Lafayette Instrument is 90 days. Lafayette Instrument Company agrees either to repair or replace, at its sole option and free of part charges to the customer, instrumentation which, under proper and normal conditions of use, proves to be defective within the warranty period. Warranty for any parts of such repaired or replaced instrumentation shall be covered under the same limited warranty and shall have a warranty period of 90 days from the date of shipment or the remainder of the original warranty period whichever is greater. This warranty and remedy are given expressly and in lieu of all other warranties, expressed or implied, of merchantability or fitness for a particular purpose and constitutes the only warranty made by Lafayette Instrument Company.

Lafayette Instrument Company neither assumes nor authorizes any person to assume for it any other liability in connection with the sale, installation, service or use of its instrumentation. Lafayette Instrument Company shall have no liability whatsoever for special, consequential, or punitive damages of any kind from any cause arising out of the sale, installation, service or use of its instrumentation. All products manufactured by Lafayette Instrument Company are tested and inspected prior to shipment. Upon prompt notification by the Customer, Lafayette Instrument Company will correct any defect in warranted equipment of its manufacture either, at its option, by return of the item to the factory, or shipment of a repaired or replacement part. Lafayette Instrument Company will not be obliged, however, to replace or repair any piece of equipment, which has been abused, improperly installed, altered, damaged, or repaired by others. Defects in equipment do not include decomposition, wear, or damage by chemical action or corrosion, or damage incurred during shipment.

Limited Obligations Covered by this Warranty

- In the case of instruments not of Lafayette Instrument Company manufacture, the original manufacturer's warranty applies.
- Shipping charges under warranty are covered only in one direction. The customer is responsible for shipping charges to the factory if return of the part is required.
- This warranty does not cover damage to components due to improper installation by the customer.
- Consumable and or expendable items, including but not limited to electrodes, lights, batteries, fuses, O-rings, gaskets, and tubing, are excluded from warranty.
- Failure by the customer to perform normal and reasonable maintenance on instruments will void warranty claims.
- If the original invoice for the instrument is issued to a company that is not the company of the end user, and not an authorized Lafayette Instrument Company distributor, then all requests for warranty must be processed through the company that sold the product to the end user, and not directly to Lafayette Instrument Company.

Export License

The U.S. Department of Commerce requires an export license for any polygraph system shipment with an ULTIMATE destination other than: Australia, Japan, New Zealand or any NATO Member Countries. It is against U.S. law to ship a Polygraph system to any other country without an export license. If the ultimate destination is not one of the above listed countries, contact us for the required license application forms.