

ROYAL JORDANIAN AIR FORCE



DIRECTORATE OF COMMUNICATIONS AND ELECTRONICS CALIBRATION LABORATORIES CAPABILITIES

Introduction

- PRECISION MEASUREMENT EQUIPMENT LABORATORIES (PMEL) WERE DESIGNED BUILT AND EQUIPPED IN ACCORDANCE WITH THE HIGHEST MILITARY STANDARDS TO PROVIDE JORDANIAN ARMED FORCES WITH THE MOST ADVANCED CALIBRATION SERVICES.

- PMEL IS CAPABLE OF CALIBRATING TEST ,MEASUREMENT, AND DIAGNOSTIC EQUIPMENT (TMDE) USED IN THE FOLLOWING FIELDS :
 - DC & LOW FREQUENCY.
 - MICROWAVE.
 - PHYSICAL AND DIMENSIONAL.
 - ELECTRO-OPTICS.

TMDE'S CALIBRATED IN PMEL ARE AS SHOWN ON PAGES (3-8)

- PMEL IS TRACEABLE TO THE NATIONAL INSTITUTE OF STANDARDS AND TECHNOLOGY (NIST) THROUGH THE UNITED STATES AIR FORCE (USAF).

CALIBRATION REQUIREMENTS

➤ CALIBRATION IS PROVIDED ONLY IF ANY OF THE FOLLOWING DOCUMENTS AND THE STANDARDS RECOMMENDED BY THESE DOCUMENTS ARE AVAILABLE :

- EQUIPMENT CALIBRATION PROCEDURE
- EQUIPMENT MAINTENANCE TECHNICAL MANUAL.
- COMMERCIAL PUBLICATIONS OR COMMERCIAL DATA.

TMDE CLASSIFICATION

PAGES (3 TO 8)

➤ CLASSIFICATION OF EQUIPMENT IS BASED UPON:

- CALIBRATED ITEM PRICE.
- STANDARDS USED FOR CALIBRATION AND OVER HEADS.
- TIME TAKEN (MAN-HOUR) TO CALIBRATE THE ITEM .

CALIBRATION COST

➤ CALIBRATION COST IN LABORATORIES IS SHOWN ON PAGE 9.

➤ CALIBRATION COST ON USER SITE = $(N * H * 50) + T$

N = NUMBER OF TECHNICIANS

H = WORKING HOURS (يبدأ حساب ساعات العمل في الموقع من لحظة مغادرة المختبر ولحين العودة)

50 = RATE OF ONE MAN HOUR IN JORDANIAN DINARS .

T = TRANSPORTATION (WHICH EQUALS 100 J.D)

➤ P.S. FOR MORE INFORMATION PLEASE CONTACT US ON TEL (06-4895923)

TMDE WHICH CAN BE CALIBRATED IN PMEL

#	INSTRUMENTS	CLASS
1	ANGLE RULERS	A
2	ATTENUATORS	A
3	BALANCES	D
4	BAR THERMOMETERS	B
5	CALIPERS	B
6	CLAMP METERS	B
7	COD REACTOR	B
8	DECADE CAPACITANCE	B
9	DECADE INDUCTANCE	B
10	DECADE RESISTOR	B
11	DIAL INDICATOR	C
12	DIGITAL MULTIMETERS	C
13	DIGITAL THERMOMETERS	B
14	DISTORTION ANALYZERS	D
15	DISTORTION METERS	D
16	DOWN CONVERTERS	F
17	FILLER GAUGES	C
18	FREQUENCY COUNTERS	E
19	FUEL TESTER	C
20	FUNCTION GENERATORS	D
21	GAUGE BLOCK (EACH ONE)	A
22	GAS FLOW METERS	B
23	HEIGHT COMPARATOR	B
24	HYDROMETERS	C
25	INSULATION TESTER	B

TMDE WHICH CAN BE CALIBRATED IN PMEL

#	INSTRUMENTS	CLASS
26	JETCAL	C
27	LEVEL	D
28	LOAD CELLS	C
29	MANOMETERS	B
30	MEASURING TAPE	A
31	MEASURING WHEEL	B
32	MECHANICAL FORCE GAUGES	B
33	MEG OHM TESTER	B
34	METAL METERS	A
35	MICRO OHM TESTERS	C
36	MICROMETERS	B
37	MW FREQUENCY COUNTERS	E
38	MW POWER METERS	B
39	MW SIGNAL GENERATORS	G
40	OSCILLOSCOPES	D
41	OVENS	D
42	OIL BATH	H
43	PAPER CUTTER	A
44	PEAK POWER METERS	B
45	POWER SENSORS	B
46	POWER SUPPLIES	B
47	PRESSURE GAUGES	A
48	PRESSURE REGULATORS	B
49	PUSHPULL GAUGES	B
50	(PH) METERS	A

TMDE WHICH CAN BE CALIBRATED IN PMEL

#	INSTRUMENTS	CLASS
51	PITOT STATIC TESTER	C
52	PROTRACTOR	C
53	PRESSURE CALIBRATOR	D
54	RIGHT ANGLE	A
55	RODS (EACH ONE)	A
56	STEEL RULER	A
57	STOP WATCH	A
58	SPRING TESTERS	B
59	SPIRIT LEVEL	B
60	SQUARE STEEL SAMPLE	B
61	SIGNAL GENERATORS	D
62	STROBOSCOPE	D
63	SWEEP GENERATORS	E
64	SPECTRUM ANALYZERS	G
65	STD VOLTAGE CALIBRATORS	H
66	TIMER	A
67	THERMOSTAT	B
68	TORQUE WRENCH	B
69	TENSILE METER	C
70	TENSIOMETERS	C
71	THERMOCOUPLE	C
72	TELEPHONE ANALYZERS	D
73	TEMP BATH DRY	D
74	TEMP CONTROLLER	D
75	TEST OSCILLATORS	D

TMDE WHICH CAN BE CALIBRATED IN PMEL

#	INSTRUMENTS	CLASS
76	TORQUE MULTIPLIERS	D
77	THEODOLITES	G
78	TRANSPONDERS	H
79	TEMP CALIBRATOR	H
80	VISCOMETER	B
81	VIDEO IF UNIT	C
82	VIBRATION PICKUPS	B
83	VERNER HEIGHT GAUGES	B
84	WEIGHTS (EACH ONE)	A
85	WATTMETERS	D
86	WAVE ANALYZERS	D
87	CLINOMETER	B
88	DEPTH GAUGES	B
89	RAMP TEST SET	G
90	AIR DATA	G
91	BORE GAUGES	C
92	SCOPE METER	D
93	SITE METER	D
94	DIGITAL TURBINE	D
95	RINGING BAR	B
96	WAVE TEK TESTER	F
97	FORCE GAGE	B
98	DYNOMETER	B
99	BATTERY CAPACITY	D
100	WATER PATH	H

TMDE WHICH CAN BE CALIBRATED IN PMEL

#	INSTRUMENTS	CLASS
101	MEGGER	B
102	OHMMETER	B
103	LIGHTMETER	B
104	THERMOHYGRO METER	B
105	DUPPLER GENERATOR	D
106	APU TESTER	B
107	TACHOMETER	B
108	HUMIDITY TEMP. INDICATOR	B
109	HUDRA DATA LOGGER	H
110	LOAD BANK	C
111	PRESSURE CALIBRATOR	D
112	WEIGHING KET	D
113	MILLIVOLT CALIBRATOR	C
114	PROGRAMMABLE WAVEFORME	F
115	THERMISTOR MOUNT	B
116	LOAD CELL	C
117	STATIC DISCHARGER	B
118	SOUND METER	B
119	FLOW METER	B
120	IGNITER TESTER	B
121	AMMETER	A
122	POCKET STROPE	B
123	LCR METER	B
124	LOOP CONTROLLER	B
125	PAINT TEST EQUIPMENT	B

#	INSTRUMENTS	CLASS
126	TEST UNIT	B
127	VOR TEST SET	H
128	BATT CHARGER	D
129	CHECK & FILL UNIT	B
130	DIGITAL CONDUCTIVITY	B
131	EDDY CURRENT TESTER	C
132	INFLATOR KIT	A
133	STABILATOR TEST SET	D
134	THICKNESS GAUGES	B
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TEST INSTRUMENT CALIBRATION COST

#	CLASS	REQUESTED TURN AROUNDTIME			
		2 DAYS (JD)	7 DAYS (JD)	14 DAYS (JD)	28 DAYS (JD)
1	A	60	40	30	25
2	B	100	80	60	50
3	C	150	120	90	75
4	D	200	160	120	100
5	E	250	200	150	125
6	F	300	240	180	150
7	G	400	320	240	200
8	H	500	400	300	250