

ALCOTEST 9510 PARAMETER REPORT

Equipment

Serial No.: ARMJ-0133
Firmware: 8326739 1.5
WinCE application: 8326738 2.9
Configuration: 8326737 3.10

Date: 09/04/2024
Time: 10:24:19

Parameter

min. blow time	5.0	s
min. breath volume for females of age 60+	1.2	L
min. breath volume for all other	1.5	L
min. blow flow	4.5	L/min
plateau detection limit	4	%
plateau detection start conc.	70	microgram/L
neg. flow detection (part. vacuum)	10.0	hPa
neg. flow detection sensitivity	10	
cal. gas abort volume	0.4	L
result-to-zero limit	0.0050	%BAC
ambient air check limit	0.0049	%BAC
interference det. d-criterion limit abs.	38	microgram/L
interference det. d-criterion limit rel.	10.0	%
interference det. t-criterion limit abs.	8	microgram/L
interference det. t-criterion limit rel.	2.1	%
IR CO2 offset	10	microgram/L
IR H2O offset	4	microgram/L
EC H2O offset	0	microgram/L
Value-based EC aging comp. on/off (1/0)	0	
Time-based EC aging comp. on/off (1/0)	1	
Time-based EC aging comp. per month	0.2	%
Time-based EC aging comp. maximum	3.0	%
EC fatigue comp. max. sum	15000	
EC fatigue comp. factor	50	
EC fatigue comp. minutes	180	
mouth alc. mark limit	500	
mouth alc. lower limit	30	
mouth alc. slope	6	
mouth alc. zero limit	50	
mouth alc. max. neg. sum	6	
mouth alc. max. 2nd derivative	35	

ALCOTEST 9510 CERTIFICATION REPORT - WET ADJUST (PART I)
Stafford Township

Equipment

Inst. Model No.: ALCOTEST 9510 Serial No.: ARMJ-0133
Firmware: 8326739 1.5 Config.: 8326737 3.10 WinCE: 8326738 2.9

Wet Adjust Record

Wet Adjust File No.: 97 Wet Adjust Date: 09/04/2024 Wet Adjust No.: 3
Wet Adjust Time: 11:32:49

Concentration: 0.100 %
Adjusting Unit: X-Cal 2000 Adj. Unit Ser. No.: ARMA-0055 Adj. Unit Exp.: 02/16/2025
Solution Lot No.: 23230 Soln. Bottle No.: 925 Adjust Soln. Exp.: 06/26/2025

Preadjust Simulator Temp.: 34.00 degree C
Postadjust Simulator Temp.: 34.00 degree C

Result

Procedure completed successfully.

Coordinator

Last Name: Waldrop - First Name: Robert MI: W Badge No.: 8256

On this date, I certified the above instrument in accordance with the Alcotest 9510 operator training and procedures established by the NJSP Office of Forensic Sciences.



Signed:

Date: 09/04/2024

ID: 52

ALCOTEST 9510 CERTIFICATION REPORT - DRY ADJUST (PART II)
Stafford Township

Equipment

Inst. Model No.: ALCOTEST 9510 Serial No.: ARMJ-0133
Firmware: 8326739 1.5 Config.: 8326737 3.10 WinCE: 8326738 2.9

Dry Adjust Record

Dry Adjust File No.: 98 Dry Adjust Date: 09/04/2024 Dry Adjust No.: 3
Dry Adjust Time: 11:56:56

Concentration: 0.100 %
Dry Gas Lot No.: 302-402448282 Adjust Gas Exp.: 05/20/2025
Barom. Model No.: Mensor CPG2300 Barom. Serial No.: 410013F5 Barom. Cert. Exp.: 01/10/2025
Pre-adjust Amb. Pressure: 1030 hPa Post-adjust Amb. Pressure: 1030 hPa

Result

Procedure completed successfully.

Coordinator

Last Name: Waldrop - First Name: Robert MI: W Badge No.: 8256

On this date, I certified the above instrument in accordance with the Alcotest 9510 operator training and procedures established by the NJSP Office of Forensic Sciences.



Signed:

Date: 09/04/2024

ID: 52

ALCOTEST 9510 CERTIFICATION REPORT - LINEARITY (PART III)
Stafford Township

Equipment

Inst. Model No.: ALCOTEST 9510 Serial No.: ARMJ-0133
 Firmware: 8326739 1.5 Config.: 8326737 3.10 WinCE: 8326738 2.9

Linearity Record

Linearity File No.: 99 Lin. Date: 09/04/2024 Lin. No.: 3

0.040% Dry Gas Lot No.: 302-402488140 Adjust. Gas Exp.: 07/15/2025
 0.080% Dry Gas Lot No.: 302-402477282 Adjust. Gas Exp.: 06/24/2025
 0.160% Dry Gas Lot No.: 302-402486005 Adjust. Gas Exp.: 07/13/2025
 0.300% Dry Gas Lot No.: 302-402488144 Adjust. Gas Exp.: 07/15/2025

Data Summary

Function	Result %BAC	Time hh:mm:ss	Barometric Pres. [hPa]	Comment(s) or Status Code
Ambient Air Blank	0.000	12:08:38		*TEST PASSED*
Control .04 Test 1 EC	0.039	12:09:16	1030	*TEST PASSED*
Control .04 Test 1 IR	0.039	12:09:16	1030	*TEST PASSED*
Ambient Air Blank	0.000	12:10:17		*TEST PASSED*
Control .04 Test 2 EC	0.040	12:10:32	1030	*TEST PASSED*
Control .04 Test 2 IR	0.039	12:10:32	1030	*TEST PASSED*
Ambient Air Blank	0.000	12:12:01		*TEST PASSED*
Control .08 Test 3 EC	0.079	12:12:38	1030	*TEST PASSED*
Control .08 Test 3 IR	0.079	12:12:38	1030	*TEST PASSED*
Ambient Air Blank	0.000	12:13:44		*TEST PASSED*
Control .08 Test 4 EC	0.081	12:13:59	1030	*TEST PASSED*
Control .08 Test 4 IR	0.080	12:13:59	1030	*TEST PASSED*
Ambient Air Blank	0.000	12:15:46		*TEST PASSED*
Control .16 Test 5 EC	0.156	12:16:20	1030	*TEST PASSED*
Control .16 Test 5 IR	0.158	12:16:20	1030	*TEST PASSED*
Ambient Air Blank	0.000	12:17:32		*TEST PASSED*
Control .16 Test 6 EC	0.159	12:17:45	1030	*TEST PASSED*
Control .16 Test 6 IR	0.159	12:17:45	1030	*TEST PASSED*
Ambient Air Blank	0.000	12:25:11		*TEST PASSED*
Control .30 Test 7 EC	0.296	12:25:48	1030	*TEST PASSED*
Control .30 Test 7 IR	0.300	12:25:48	1030	*TEST PASSED*
Ambient Air Blank	0.000	12:27:13		*TEST PASSED*
Control .30 Test 8 EC	0.300	12:27:27	1030	*TEST PASSED*
Control .30 Test 8 IR	0.303	12:27:27	1030	*TEST PASSED*
Ambient Air Blank	0.000	12:27:59		*TEST PASSED*

Result

All tests within acceptable tolerance.

Coordinator

Last Name: Waldrop - First Name: Robert MI: W Badge No.: 8256

On this date, I certified the above instrument in accordance with the Alcotest 9510 operator training and procedures established by the NJSP Office of Forensic Sciences.

TPP Waldrop #8256

Signed:

Date: 09/04/2024

ID: 52

ALCOTEST 9510 CYLINDER INSTALLATION REPORT - INLET 1
Stafford Township
SERIAL NUMBER: ARMJ-0133

Equipment

Inst. Model No.: ALCOTEST 9510 Serial No.: ARMJ-0133
 Firmware: 8326739 1.5 Config.: 8326737 3.10 WinCE: 8326738 2.9
 Cyl1 Install File No.: 40 Cyl1 Install Date: 11/06/2023 Cyl1 Install No.: 1

Control Tests (0.100%)

Installation Inlet: #1 (Upper) Post test active Cyl.: #1 (Upper)
 Dry Gas Lot No.: 302-402422316 Dry Gas Lot Exp.: 05/05/2025

Data Summary

Function	Result %BAC	Time hh:mm:ss	Barometric Pres. [hPa]	Comment(s) or Status Code
Ambient Air Blank	0.000	14:02:59		*TEST PASSED*
Control Test 1			1017	*TEST PASSED*
EC Result	0.098	14:03:46		*TEST PASSED*
IR Result	0.099	14:03:46		*TEST PASSED*
Ambient Air Blank	0.000	14:04:49		*TEST PASSED*
Control Test 2			1017	*TEST PASSED*
EC Result	0.100	14:05:14		*TEST PASSED*
IR Result	0.100	14:05:14		*TEST PASSED*
Ambient Air Blank	0.000	14:06:16		*TEST PASSED*
Control Test 3			1017	*TEST PASSED*
EC Result	0.100	14:06:40		*TEST PASSED*
IR Result	0.100	14:06:40		*TEST PASSED*
Ambient Air Blank	0.000	14:07:03		*TEST PASSED*

Result

All tests within acceptable tolerance.

Coordinator

Last Name: Lutz - First Name: Dennis MI: J Badge No.: 7045

On this date, I certified the above instrument in accordance with the Alcotest 9510 operator training and procedures established by the NJSP Office of Forensic Sciences.

Tir I Lutz 7045

Signed:

Date: 11/06/2023

ID: 5

CERTIFICATE OF ANALYSIS

EBS - ETHANOL BREATH STANDARD

Sales order: 1110403957

Date: May 16, 2022

DRAEGER MEDICAL SYSTEMS INC.

METHOD OF ANALYSIS: IR Breath Alcohol Analyzer

ANALYTICAL ACCURACY: +/-0.002 BrAC or +/-2% whichever is greater.

CALGAZ LOT#: 302-402422316

ETHANOL IN NITROGEN

Product Expiration: May 05, 2025

COMPONENT	PPM	(BrAC)
ETHANOL	260.5PPM	(0.100)
NITROGEN	BAL	
AVERAGE ANALYTICAL VALUE	PPM	(BrAC)
ETHANOL	264.6	(0.102)

REFERENCE STANDARD	CYLINDER	CONCENTRATION PPM
N.M.I. TRACEABLE STANDARDS*	ND38434	260.4

* CERTIFICATION TRACEABLE TO NATIONAL METROLOGY INSTITUTE TRACEABLE STANDARDS

TRACEABILITY

Preparation:

Gas mixtures manufactured with balances calibrated by an ISO 17025 accredited company using NIST traceable weights and meets or exceeds the requirements of NIST Handbook 44.

Calibration test 283190, 283189, 283188, or 283192 dated 6th January 2022 applies

Analytical:

Analytical Instruments Calibrated Using NMI Traceable Standards.

Certification Numbers: ND38434-20211028, A679, A650, ND38462-20211027, ND18363-20211104,

ND50144-20201218

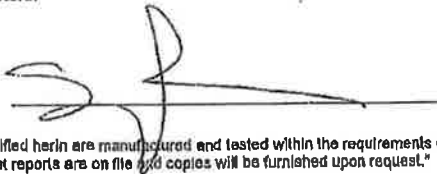
No effecting environmental conditions during analysis.

*NMI is recognized by NIST through the Mutual Recognition Agreement (CIPM MRA).

CALGAZ calibration devices were found to meet all applicable requirements of the National Highway Traffic Safety Administration Model Specifications for calibrating units for breath alcohol testers.

Manufactured Date: May 05, 2022

APPROVED BY: _____



"We certify that all the cylinders for the Lot numbers identified herein are manufactured and tested within the requirements of CFR 49 part 178.65 and that physical and chemical test reports are on file and copies will be furnished upon request."

CALGAZ, a division of Airgas USA LLC

821 Chesapeake Drive, Cambridge, MD 21613-0149

Phone: (410) 228-6400 Fax: (410) 228-4251

CERTIFICATE OF ANALYSIS

EBS - ETHANOL BREATH STANDARD

Sales order: 1121656187

Date: June 30, 2023

DRAEGER MEDICAL SYSTEMS INC.;

METHOD OF ANALYSIS: IR Breath Alcohol Analyzer

ANALYTICAL ACCURACY: +/-0.002 BrAC or +/-2% whichever is greater.

CALGAZ LOT#: 302-402755079

ETHANOL IN NITROGEN

Product Expiration: May 31, 2026

COMPONENT	PPM	(BrAC)
ETHANOL	260.5PPM	(0.100)
NITROGEN	BAL.	
AVERAGE ANALYTICAL VALUE	PPM	(BrAC)
ETHANOL	262.5	(0.101)

REFERENCE STANDARD	CYLINDER	CONCENTRATION PPM
N.M.I. TRACEABLE STANDARDS*	ND38424	260.7

* CERTIFICATION TRACEABLE TO NATIONAL METROLOGY INSTITUTE TRACEABLE STANDARDS

TRACEABILITY

Preparation:

Gas mixtures manufactured with balances calibrated by an ISO 17025 accredited company using NIST traceable weights and meets or exceeds the requirements of NIST Handbook 44.

Traceable certificate numbers 3445312 and 3398673.

Analytical:

Analytical Instruments Calibrated Using NMI Traceable Standards.

Certification Numbers: A679-20190918, D049803-20220329

No effecting environmental conditions during analysis.

*NMI is recognized by NIST through the Mutual Recognition Agreement (CIPM MRA).

CALGAZ calibration devices were found to meet all applicable requirements of the National Highway Traffic Safety Administration Model Specifications for calibrating units for breath alcohol testers.

Manufactured Date: May 31, 2023

APPROVED BY: 

"We certify that all the cylinders for the Lot numbers identified herein are manufactured and tested within the requirements of GFR 49 part 178.65 and that physical and chemical test reports are on file and copies will be furnished upon request."

CALGAZ, a division of Airgas USA LLC

821 Chesapeake Drive, Cambridge, MD 21613-0149

Phone: (410) 228-6400

Fax: (410) 228-4251


Dräger**Alcotest 9510****CERTIFICATE OF ACCURACY**

This is to certify that the Alcotest 9510 has been tested for accuracy and found to be in compliance with the National Highway Traffic Safety Administration Standard for evidential breath testing devices. The Alcotest 9510 is compliant as a "mobile" and "nonmobile" EBT with 49 FR 48854, 49 FR 48864, and 58 FR 48705. The manufacturer recommends accuracy verification of this instrument within 12 months of the calibration date below, or sooner, according to your state's specifications.

Certification Date:

Serial Number:

10/05/2023ARMJ-0133Draeger, Inc. *AT* *MB*



State of New Jersey

OFFICE OF THE ATTORNEY GENERAL
DEPARTMENT OF LAW AND PUBLIC SAFETY
DIVISION OF STATE POLICE
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PHILIP D. MURPHY
Governor

TAHESHA L. WAY
Lt. Governor

MATTHEW J. PLATKIN
Attorney General

COLONEL PATRICK J. CALLAHAN
Superintendent

CERTIFICATION OF ANALYSIS **0.100 PERCENT BREATH ALCOHOL SIMULATOR SOLUTION**

ACCEPTANCE SPECIFICATIONS FOR BREATH ALCOHOL SIMULATOR SOLUTION: Ethyl alcohol concentration within, but not exceeding, the range of 0.1174 to 0.1246 grams per 100 milliliters of solution.

MANUFACTURER: Draeger, Inc.

ANALYSIS DATE: 09/12/2023

BREATH ALCOHOL SIMULATOR SOLUTION LOT NUMBER: 23230

Representative samples of the above-referenced Lot Number were tested by Gas Chromatography and found to have a mean ethyl alcohol concentration range of 0.1203 to 0.1220 grams per 100 milliliters of solution.

This lot of breath alcohol simulator solution may be utilized as a known traceable standard for the purpose of conducting periodic tests, pursuant to N.J.A.C. 13:51-4.3, of approved breath test instruments (N.J.A.C. 13:51-3.5) utilized by law enforcement agencies in this State. The manufacturer's expiration date for this lot of breath alcohol simulator solution is June 26, 2025.

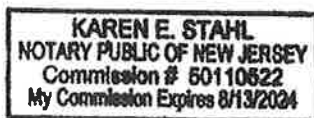
As OFS Director for the Division of State Police, I hereby certify and attest that the tests and results documented in this Certificate of Analysis were performed at the Office of Forensic Sciences of the Division of State Police on properly functioning and calibrated instruments and equipment. All procedures utilized are accurate, objective, and performed on a routine basis by personnel within the Office of Forensic Sciences, in accordance with their professional duties and responsibilities.

Michael Kennedy

Michael Kennedy
OFS Director
NJSP Office of Forensic Sciences

Sworn to and subscribed before me this 15 day of September, 2023.

Nojary



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Customer: DRAEGER INC
7256 S SAM HOUSTON PKWY W
STE 100
HOUSTON, TX 77085
PO Number: S1O4303208869

Certificate/SO Number: 5-E8A6B-80-1 Revision 0

Manufacturer: Drager Safety AG & Co. KGaA
Model Number: X-Cal 2000
Description: Breath Alcohol Simulator
Serial Number: ARMA-0055
ID: NONE

As-Found: Out Of Tolerance
As-Left: In Tolerance

Issue Date: Feb 16, 2024
Calibration Date: Feb 16, 2024
Due Date: Feb 16, 2025

Calibrated To: Customer Specification
Calibration Procedure: 1-AC103519-1

Transcat Calibration Laboratories have been audited and found in compliance with ISO/IEC 17025:2017. Accredited calibrations performed within the Lab Scope of Accreditation are indicated by the presence of the Accrediting Body Logo and Certificate Number. Any measurements on an accredited calibration not covered by the Lab Scope of Accreditation are listed in the notes section of the certificate. SCC, NRC, CLAS or ANAB do not guarantee the accuracy of an individual calibration by accredited laboratories.

Transcat calibrations, as applicable, are performed in compliance with the requirements of the Transcat Quality Manual QAC-P01-000, the customer Purchase Order and/or Quality Agreement requirements, ISO 9001:2015, ANSI/NCSL Z540.1-1994 (R2002), and ISO 10012:2003, as applicable. When specified contractually, the requirements of ISO TS 16949:2009, 10CFR21, 10CFR50 App. B, ASME NQA-1:2012, and ANSI/NCSL Z540.3-2006 (R2013) are also covered.

Complete records of work performed are maintained by Transcat and are available for inspection. Laboratory standards used in the performance of this calibration are listed on this certificate.

Transcat documents the traceability of measurements to the SI units through the National Institute of Standards and Technology (NIST), or the National Research Council of Canada (NRC), or other national measurement institutes (NMI) that are signatories to the CIPM Mutual Recognition Arrangement, or accepted fundamental and/or natural physical constants, or by the use of specified methods, consensus standards or ratio type measurements. Documentation supporting traceability information is available for review upon written request at a Transcat facility. The measured quantity and the measurement uncertainty are required for further dissemination of traceability.

Uncertainties are reported with a coverage factor $k=2$, providing a level of confidence of approximately 95%. All calibrations have been performed using processes having a TUR of 4:1 or better (3:1 for mass calibrations), unless otherwise noted. The Test Uncertainty Ratio (TUR) is calculated in accordance with NCSL International RP-18. For mass calibrations: Conventional mass referenced to 8.0 g/cm³.

The results in this report relate only to the item calibrated or tested. Recorded calibration data is valid at the time of calibration within the stated uncertainties at the environmental conditions noted. The determination of compliance to the specification is specific to the model/serial no./ID no. referenced above based on the tolerances shown; these tolerances are either the original equipment manufacturers (OEM's) warranted specifications or the client's requested specifications. Any number of factors can cause a unit to drift out of tolerance at any time following its calibration. Limitations on the uses of this instrument are detailed in the OEM's operating instructions. This certificate may not be reproduced except in full, without the written approval of Transcat. Additional information, if applicable may be included on separate report(s).

Notes:

Unit was received Out of Tolerance and adjusted to meet customer specifications. The OOT readings were verified.

Customer: DRAEGER INC
7256 S SAM HOUSTON PKWY W
STE 100
HOUSTON, TX 77085
PO Number: S104303208869



Certificate/SO Number: 5-E8A6B-80-1 Revision 0

As Found Data

Description	Setpoints	Accuracy	Low Limit	High Limit	As Found	Cal Process		Measurement Uncertainty (k=2; ±)	Units	TUR
						OOT	Uncertainty (k=2; ±)			
Function Checks										
Bubble Check			P	P	P					
Seal Check			P	P	P					
Temperature Source: Accuracy Test										
Accuracy Test	34.00°C	±(0.02 °C)	33.98	34.02	34.03 °C	*	1.5e-002	1.6e-002	°C	1.3 : 1
Temperature Source: Stability Test										
Stability Test	0.00°C	±(0.02 °C)	-0.02	0.02	0.00 °C		5.0e-003	7.6e-003	°C	4.0 : 1

As Left Data

Description	Setpoints	Accuracy	Low Limit	High Limit	As Left	Cal Process		Measurement Uncertainty (k=2; ±)	Units	TUR
						OOT	Uncertainty (k=2; ±)			
Function Checks										
Bubble Check			P	P	P					
Seal Check			P	P	P					
Temperature Source: Accuracy Test										
Accuracy Test	34.00°C	±(0.02 °C)	33.98	34.02	34.00 °C		1.5e-002	1.6e-002	°C	1.3 : 1
Temperature Source: Stability Test										
Stability Test	0.00°C	±(0.02 °C)	-0.02	0.02	0.00 °C		5.0e-003	7.6e-003	°C	4.0 : 1

Field not applicable.



Customer: DRAEGER INC
7256 S SAM HOUSTON PKWY W
STE 100
HOUSTON, TX 77085
PO Number: S104303208869

Certificate/SO Number: 5-E8A6B-80-1 Revision 0

Traceable Standards

Asset	Manufacturer	Model Number	Description	Cal Date	Due Date	Traceability Number	Use
05H1431	AccuMac Corporation	AM1760	Secondary SPRT	12-Feb-24	28-Feb-25	15-HT7D-3-1	AF
HP927312	Hart Scientific/Fluke	1575	Super Thermometer	6-Dec-22	30-Jun-24	5-8-HP927312-8-1	AF

The use of the standard is defined as: AF - used for as-found readings, AL - used for as-left readings.

Environmental Data

Temperature	Relative Humidity	Temp / RH Asset	Lab Area	Lab Description
70.09°F /21.16°C	47.50%	Dewk15	G	Temperature

Decision Rule

When compliance statements are present, they are reported without factoring in the effects of uncertainty and comply with the guidelines as follows : The acceptance zone is defined as: less than or equal to the high limit, and/or greater than or equal to the low limit. The rejection zones are defined as greater than the high limit and/or less than the low limit. Single measurement results in the acceptance zone are identified as in-tolerance. Single measurement results in the rejection zone are identified as out-of-tolerance (OOT). When all measurement results are in the acceptance zone for repeated measurements, for the same characteristic, the test is identified as in-tolerance. For repeated characteristic measurements, a single measurement result in the rejection zone, will cause the test to be identified as out-of-tolerance (OOT). Data rejection for cause, (outliers) is permitted after the determining and Verifying Out Of Tolerance (OOT) and/or Op Fail Readings procedure outlined in this document has been completed and the anomalous reading cannot be repeated, and the anomalous reading does not represent the system under test. Statements of conformity are binary.

Customer: DRAEGER INC

7256 S SAM HOUSTON PKWY W

STE 100

HOUSTON, TX 77085

PO Number: S104303208869



Certificate/SO Number: 5-E8A6B-80-1 Revision 0

Legend

Topic	Description
Accuracy	UUT specification that establishes expected tolerances and a time limit (calibration interval) over which the instrument is expected to hold these tolerances
As Found	Initial measurement results
As Left	Measurement results after adjustment and/or repair
Blank Data Field	Test is not applicable for the UUT
Cal Process Uncertainty (CPU)	The uncertainty of calibration process for the reported measurement result
Calibration Date	Indicates the date that the calibration was completed
Cover Factor (k)	A measure of uncertainty that defines an interval about the measurement result
Due Date	Indicates the end of the calibration cycle as requested by the customer
Issue Date	Indicates the date that the calibration has passed the Data Review Process and was signed by an authorized signatory or the date that a revision to the original certificate has been issued
Low / High Limits	Establishes UUT acceptable performance limits for the test measurement
Measurement Uncertainty	The dispersion of the values attributed to a measured quantity
OOA	Out of Acceptance (#)
OOT	Out of Tolerance (*)
Setpoints	Measurement target values
Traceability	Unbroken chain of comparisons relating an instrument's measurements to a known standard(s)
Traceability Number	Unique Identifier(s) used to document traceability of calibration standards
TUR	Test Uncertainty Ratio, ratio of the tolerance or specification of the test measurement in relation to the uncertainty in measurement results
UUT	Unit Under test

CALIBRATED
BY **TRANSCAT**

CERTIFICATE OF CALIBRATION

Customer: DRAEGER INC
7256 S SAM HOUSTON PKWY W
STE 100
HOUSTON, TX 77085
PO Number: S1O4303208869



Certificate/SO Number: 5-E8A6B-80-1 Revision 0

Calibrated At:
16115 Park Row
Houston, TX 77084

Facility Responsible:
16115 Park Row
Houston, TX 77084
800-828-1470

Unit Barcode:

09008541800

Date Received: January 04, 2024
Service Level: R9

Calibrated By:

Camden Alford
Camden Alford
Calibration Technician

Electronically Signed By:
Camden Alford

Feb 16, 2024
10:17:43 -05:00

Reviewed By:


Graham Walker for

Electronically Signed By:
Graham Walker for

Feb 16, 2024
10:42:43 -05:00

Certificate - Page 5 of 5
Reprinted on February 27, 2024

Customer Number: 1-659111-000
OPS-F20-014R11 07/27/23 FP001R9 4/9/2021



Customer: DRAEGER INC
7256 S SAM HOUSTON PKWY W
STE 100
HOUSTON, TX 77085
PO Number: S1O4303208869

Certificate/SO Number: 5-E8A6B-180-1 Revision 0

Manufacturer: Wika Instr/Mensor Corp/Trend
Model Number: CPG2300
Description: Portable Barometer
Serial Number: 410013F5
ID: NONE

As-Found: In Tolerance
As-Left: In Tolerance
Issue Date: Jan 10, 2024
Calibration Date: Jan 10, 2024
Due Date: Jan 10, 2025

Calibrated To: Manufacturer Specification
Calibration Procedure: 1-AC107288-0

Transcat Calibration Laboratories have been audited and found in compliance with ISO /IEC 17025:2017. Accredited calibrations performed within the Lab Scope of Accreditation are indicated by the presence of the Accrediting Body Logo and Certificate Number. Any measurements on an accredited calibration not covered by the Lab Scope of Accreditation are listed in the notes section of the certificate. SCC, NRC, CLAS or ANAB do not guarantee the accuracy of an individual calibration by accredited laboratories.

Transcat calibrations, as applicable, are performed in compliance with the requirements of the Transcat Quality Manual QAC -P01-000, the customer Purchase Order and/or Quality Agreement requirements, ISO 9001:2015, ANSI/NCSL Z540.1-1994 (R2002), and ISO 10012:2003, as applicable. When specified contractually, the requirements of ISO TS 16949:2009, 10GFR21, 10CFR50 App. B, ASME NQA-1:2012, and ANSI/NCSL Z540.3-2006 (R2013) are also covered.

Complete records of work performed are maintained by Transcat and are available for inspection. Laboratory standards used in the performance of this calibration are listed on this certificate.

Transcat documents the traceability of measurements to the SI units through the National Institute of Standards and Technology (NIST), or the National Research Council of Canada (NRC), or other national measurement institutes (NMI) that are signatories to the CIPM Mutual Recognition Arrangement, or accepted fundamental and/or natural physical constants, or by the use of specified methods, consensus standards or ratio type measurements. Documentation supporting traceability information is available for review upon written request at a Transcat facility. The measured quantity and the measurement uncertainty are required for further dissemination of traceability.

Uncertainties are reported with a coverage factor, k=2, providing a level of confidence of approximately 95%. All calibrations have been performed using processes having a TUR of 4:1 or better (3:1 for mass calibrations), unless otherwise noted. The Test Uncertainty Ratio (TUR) is calculated in accordance with NCSL International RP-18. For mass calibrations: Conventional mass referenced to 8.0 g/cm³.

The results in this report relate only to the item calibrated or tested. Recorded calibration data is valid at the time of calibration within the stated uncertainties at the environmental conditions noted. The determination of compliance to the specification is specific to the model/serial no./ID no. referenced above based on the tolerances shown; these tolerances are either the original equipment manufacturers (OEM's) warranted specifications or the client's requested specifications. Any number of factors can cause a unit to drift out of tolerance at any time following its calibration. Limitations on the uses of this instrument are detailed in the OEM's operating instructions. This certificate may not be reproduced except in full, without the written approval of Transcat. Additional information, if applicable may be included on separate report(s).

Customer: DRAEGER INC

7256 S SAM HOUSTON PKWY W

STE 100

HOUSTON, TX 77085

PO Number: S104303208869



Certificate/SO Number: 5-E8A6B-180-1 Revision 0

As Found/As Left Data

Description	Setpoints	Accuracy	Low Limit	High Limit	As Found / As Left	O O T	Cal Process		Measurement		TUR
							Uncertainty (k=2; ±)	Uncertainty (k=2; ±)	Uncertainty (k=2; ±)	Uncertainty (k=2; ±)	
Pressure Measure: 552 to 1172 mbara Range											
	550.57mbara	±(0.015% FS)	550.39	550.75	550.60 mbara		1.1e-002	1.3e-002	1.3e-002	mbara	16.3 : 1
	610.66mbara	±(0.015% FS)	610.48	610.84	610.70 mbara		1.2e-002	1.3e-002	1.3e-002	mbara	14.7 : 1
	670.94mbara	±(0.015% FS)	670.76	671.12	671.00 mbara		1.3e-002	1.5e-002	1.5e-002	mbara	13.4 : 1
	742.82mbara	±(0.015% FS)	742.64	743.00	742.90 mbara		1.5e-002	1.6e-002	1.6e-002	mbara	12.1 : 1
	803.09mbara	±(0.015% FS)	802.91	803.27	803.10 mbara		1.6e-002	1.7e-002	1.7e-002	mbara	11.2 : 1
	863.49mbara	±(0.015% FS)	863.31	863.67	863.50 mbara		1.7e-002	1.8e-002	1.8e-002	mbara	10.4 : 1
	923.62mbara	±(0.015% FS)	923.44	923.80	923.70 mbara		1.8e-002	1.9e-002	1.9e-002	mbara	9.7 : 1
	983.85mbara	±(0.015% FS)	983.67	984.03	983.90 mbara		2.0e-002	2.1e-002	2.1e-002	mbara	9.1 : 1
	1052.8mbara	±(0.015% FS)	1052.6	1053.0	1052.9 mbara		2.1e-002	6.1e-002	6.1e-002	mbara	9.5 : 1
	1113.2mbara	±(0.015% FS)	1113.0	1113.4	1113.3 mbara		2.2e-002	6.2e-002	6.2e-002	mbara	9.0 : 1
	1173.5mbara	±(0.015% FS)	1173.3	1173.7	1173.5 mbara		2.3e-002	6.2e-002	6.2e-002	mbara	8.5 : 1
	923.62mbara	±(0.015% FS)	923.44	923.80	923.70 mbara		1.8e-002	1.9e-002	1.9e-002	mbara	9.7 : 1
	863.49mbara	±(0.015% FS)	863.30	863.66	863.50 mbara		1.7e-002	1.8e-002	1.8e-002	mbara	10.4 : 1
	803.09mbara	±(0.015% FS)	802.91	803.27	803.20 mbara		1.6e-002	1.7e-002	1.7e-002	mbara	11.2 : 1

Field not applicable.

Customer: DRAEGER INC

7256 S SAM HOUSTON PKWY W

STE 100

HOUSTON, TX 77085

PO Number: S104303208869



Certificate/SO Number: 5-E8A6B-180-1 Revision 0

Traceable Standards

Asset	Manufacturer	Model Number	Description	Cal Date	Due Date	Traceability Number	Use
DewK2	Hart Scientific	2626-H	Hygro-Thermometer, Probe,	8-Mar-23	31-Mar-24	15-&DEWK2-13-1	AF/AL
DW09BA	Fluke/DH Instruments	PG7601	Piston Gauge	11-Sep-23	30-Sep-24	5-&DW09BA-16-1	AF/AL
DW09LOW	Fluke/DH Instruments	PC-7100/7600-10-TC	Gas Piston-Cylinder Module	22-Aug-23	31-Aug-28	5-&DW09LOW-5-1	AF/AL
DW09MASS	Fluke/DH Instruments	MS-AMH-38	AMH Mass Set	4-Jan-23	31-Jan-24	5-&DW09MASS-7-1	AF/AL

The use of the standard is defined as: AF - used for as-found readings, AL - used for as-left readings.

Environmental Data

Temperature	Relative Humidity	Temp / RH Asset	Lab Area	Lab Description
71.43°F /21.91°C	31.90%	DewK8	B	GP Pressure

Decision Rule

When compliance statements are present, they are reported without factoring in the effects of uncertainty and comply with the guidelines as follows : The acceptance zone is defined as: less than or equal to the high limit, and/or greater than or equal to the low limit. The rejection zones are defined as greater than the high limit and/or less than the low limit. Single measurement results in the acceptance zone are identified as in-tolerance. Single measurement results in the rejection zone are identified as out-of-tolerance (OOT). When all measurement results are in the acceptance zone for repeated measurements, for the same characteristic, the test is identified as in-tolerance. For repeated characteristic measurements, a single measurement result in the rejection zone, will cause the test to be identified as out-of-tolerance (OOT). Data rejection for cause, (outliers) is permitted after the Acceptance and Verifying Out Of Tolerance (OOT) and/or Op Fail Readings procedure outlined in this document has been completed and the anomalous reading cannot be repeated, and the anomalous reading does not represent the system under test. Statements of conformity are binary.

Customer: DRAEGER INC
7256 S SAM HOUSTON PKWY W
STE 100
HOUSTON, TX 77085
PO Number: S1O4303208869



Certificate/SO Number: 5-E8A6B-180-1 Revision 0

Legend

Topic	Description
Accuracy	UUT specification that establishes expected tolerances and a time limit (calibration interval) over which the instrument is expected to hold these tolerances
As Found	Initial measurement results
As Left	Measurement results after adjustment and/or repair
Blank Data Field	Test is not applicable for the UUT
Cal Process Uncertainty (CPU)	The uncertainty of calibration process for the reported measurement result
Calibration Date	Indicates the date that the calibration was completed
Cover Factor (k)	A measure of uncertainty that defines an interval about the measurement result
Due Date	Indicates the end of the calibration cycle as requested by the customer
Issue Date	Indicates the date that the calibration has passed the Data Review Process and was signed by an authorized signatory or the date that a revision to the original certificate has been issued
Low / High Limits	Establishes UUT acceptable performance limits for the test measurement
Measurement Uncertainty	The dispersion of the values attributed to a measured quantity
OOA	Out of Acceptance (#)
OOT	Out of Tolerance (*)
Setpoints	Measurement target values
Traceability	Unbroken chain of comparisons relating an instrument's measurements to a known standard(s)
Traceability Number	Unique identifier(s) used to document traceability of calibration standards
TUR	Test Uncertainty Ratio, ratio of the tolerance or specification of the test measurement in relation to the uncertainty in measurement results
UUT	Unit Under test

CALIBRATED
BY **TRANSCAT**

CERTIFICATE OF CALIBRATION

Customer: DRAEGER INC
7256 S SAM HOUSTON PKWY W
STE 100
HOUSTON, TX 77085
PO Number: S104303208869



Certificate/SO Number: 5-E8A6B-180-1 Revision 0


Calibrated At:
16115 Park Row
Houston, TX 77084

Facility Responsible:
16115 Park Row
Houston, TX 77084
800-828-1470

Unit Barcode: 
09008541813

Date Received: January 04, 2024
Service Level: R9

Calibrated By: 
Fritz Cardona
Calibration Technician

Reviewed By: 
Josh Soileau
Lab Manager

Electronically Signed By:
Fritz Cardona
Jan 10, 2024
15:07:25 -05:00

Electronically Signed By:
Josh Soileau
Jan 10, 2024
15:14:34 -05:00

Certificate - Page 5 of 5
Reprinted on February 27, 2024

Customer Number: 1-659111-000
OPS-F20-014R11 07/27/23 FP001R9 4/9/2021

CERTIFICATE OF ANALYSIS

EBS - ETHANOL BREATH STANDARD

Sales order: 1111663404
Date: July 05, 2022

NJSP DEPT OF LAW AND PUBLIC SAFETY

METHOD OF ANALYSIS: IR Breath Alcohol Analyzer
ANALYTICAL ACCURACY: +/-0.002 BrAC or +/-2% whichever is greater.
CALGAZ LOT#: 302-402448282
ETHANOL IN NITROGEN

Product Expiration: May 20, 2025

COMPONENT	PPM	(BrAC)
ETHANOL	260.5PPM	(0.100)
NITROGEN	BAL	
AVERAGE ANALYTICAL VALUE	PPM	(BrAC)
ETHANOL	263.3	(0.101)

REFERENCE STANDARD	CYLINDER	CONCENTRATION PPM
N.M.I. TRACEABLE STANDARDS*	ND38434	260.4

* CERTIFICATION TRACEABLE TO NATIONAL METROLOGY INSTITUTE TRACEABLE STANDARDS

TRACEABILITY

Preparation:

Gas mixtures manufactured with balances calibrated by an ISO 17025 accredited company using NIST traceable weights and meets or exceeds the requirements of NIST Handbook 44.

Calibration test 283190, 283189, 283188, or 283192 dated 6th January 2022 applies

Analytical:

Analytical Instruments Calibrated Using NMI Traceable Standards.

Certification Numbers: ND38434-20211028, A679, A650, ND38462-20211027, ND18363-20211104, ND50144-20201218

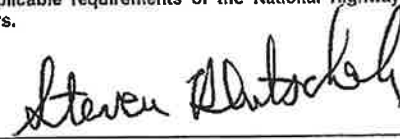
No effecting environmental conditions during analysis.

*NMI is recognized by NIST through the Mutual Recognition Agreement (CIPM MRA).

CALGAZ calibration devices were found to meet all applicable requirements of the National Highway Traffic Safety Administration Model Specifications for calibrating units for breath alcohol testers.

Manufactured Date: May 20, 2022

APPROVED BY: _____



"We certify that all the cylinders for the Lot numbers identified herein are manufactured and tested within the requirements of CFR 49 part 178.65 and that physical and chemical test reports are on file and copies will be furnished upon request."

CALGAZ, a division of Airgas USA LLC
821 Chesapeake Drive, Cambridge, MD 21613-0149
Phone: (410) 228-6400 Fax: (410) 228-4251

CERTIFICATE OF ANALYSIS

EBS - ETHANOL BREATH STANDARD

DRAEGER MEDICAL SYSTEMS INC.

Sales order: 1111918174

Date: July 27, 2022

METHOD OF ANALYSIS: IR Breath Alcohol Analyzer

ANALYTICAL ACCURACY: +/-0.002 BrAC or +/-2% whichever is greater.

CALGAZ LOT#: 302-402488140

ETHANOL IN NITROGEN

Product Expiration: July 15, 2025

COMPONENT	PPM	(BrAC)
ETHANOL	104.2PPM	(0.040)
NITROGEN	BAL	
AVERAGE ANALYTICAL VALUE	PPM	(BrAC)
ETHANOL	107.1	(0.041)

REFERENCE STANDARD	CYLINDER	CONCENTRATION PPM
N.M.I. TRACEABLE STANDARDS*	ND38434	260.4

* CERTIFICATION TRACEABLE TO NATIONAL METROLOGY INSTITUTE TRACEABLE STANDARDS

TRACEABILITY

Preparation:

Gas mixtures manufactured with balances calibrated by an ISO 17025 accredited company using NIST traceable weights and meets or exceeds the requirements of NIST Handbook 44.

Calibration test 283192, dated 6th January 2022 or calibration test 292029, 292030 or 292031, dated 26th March 2022 applies

Analytical:

Analytical Instruments Calibrated Using NMI Traceable Standards.

Certification Numbers: ND38434-20211028, A679, A650, ND38462-20211027, ND18363-20211104, ND50144-20201218

No effecting environmental conditions during analysis.

*NMI is recognized by NIST through the Mutual Recognition Agreement (CIPM MRA).

CALGAZ calibration devices were found to meet all applicable requirements of the National Highway Traffic Safety Administration Model Specifications for calibrating units for breath alcohol testers.

Manufactured Date: July 15, 2022

APPROVED BY: _____



"We certify that all the cylinders for the Lot numbers identified herein are manufactured and tested within the requirements of CFR 49 part 178.65 and that physical and chemical test reports are on file and copies will be furnished upon request."

CALGAZ, a division of Airgas USA LLC

821 Chesapeake Drive, Cambridge, MD 21613-0149

Phone: (410) 228-6400

Fax: (410) 228-4251

CERTIFICATE OF ANALYSIS

EBS - ETHANOL BREATH STANDARD

Sales order: 1111713599
Date: July 05, 2022

NJSP DEPT OF LAW AND PUBLIC SAFETY

METHOD OF ANALYSIS: IR Breath Alcohol Analyzer
ANALYTICAL ACCURACY: +/-0.002 BrAC or +/-2% whichever is greater.
CALGAZ LOT#: 302-402477282
ETHANOL IN NITROGEN

Product Expiration: June 24, 2025

COMPONENT	PPM	(BrAC)
ETHANOL	208.4PPM	(0.080)
NITROGEN	BAL	
AVERAGE ANALYTICAL VALUE	PPM	(BrAC)
ETHANOL	212.2	(0.081)

REFERENCE STANDARD	CYLINDER	CONCENTRATION PPM
N.M.I. TRACEABLE STANDARDS*	ND38434	260.4

* CERTIFICATION TRACEABLE TO NATIONAL METROLOGY INSTITUTE TRACEABLE STANDARDS

TRACEABILITY

Preparation:

Gas mixtures manufactured with balances calibrated by an ISO 17025 accredited company using NIST traceable weights and meets or exceeds the requirements of NIST Handbook 44.

Calibration test 283190, 283189, 283188, or 283192 dated 6th January 2022 applies

Analytical:

Analytical Instruments Calibrated Using NMI Traceable Standards.

Certification Numbers: ND38434-20211028, A679, A650, ND38462-20211027, ND18363-20211104, ND50144-20201218

No effecting environmental conditions during analysis.

*NMI is recognized by NIST through the Mutual Recognition Agreement (CIPM MRA).
CALGAZ calibration devices were found to meet all applicable requirements of the National Highway Traffic Safety Administration Model Specifications for calibrating units for breath alcohol testers.

Manufactured Date: June 24, 2022

APPROVED BY:



"We certify that all the cylinders for the Lot numbers identified herein are manufactured and tested within the requirements of CFR 49 part 170.65 and that physical and chemical test reports are on file and copies will be furnished upon request."

CALGAZ, a division of Airgas USA LLC
821 Chesapeake Drive, Cambridge, MD 21613-0149
Phone: (410) 228-6400 Fax: (410) 228-4251

CERTIFICATE OF ANALYSIS

EBS - ETHANOL BREATH STANDARD

Sales order: 1111788955

Date: July 14, 2022

NJSP

METHOD OF ANALYSIS: IR Breath Alcohol Analyzer
ANALYTICAL ACCURACY: +/-0.002 BrAC or +/-2% whichever is greater.
CALGAZ LOT#: 302-402486005
ETHANOL IN NITROGEN

Product Expiration: July 13, 2025

COMPONENT	PPM	(BrAC)
ETHANOL	416.8PPM	(0.160)
NITROGEN	BAL	
AVERAGE ANALYTICAL VALUE	PPM	(BrAC)
ETHANOL	420.0	(0.161)

REFERENCE STANDARD	CYLINDER	CONCENTRATION PPM
N.M.I. TRACEABLE STANDARDS*	ND38434	260.4

* CERTIFICATION TRACEABLE TO NATIONAL METROLOGY INSTITUTE TRACEABLE STANDARDS

TRACEABILITY

Preparation:

Gas mixtures manufactured with balances calibrated by an ISO 17025 accredited company using NIST traceable weights and meets or exceeds the requirements of NIST Handbook 44.

Calibration test 283192, dated 6th January 2022 or calibration test 292029, 292030 or 292031, dated 26th March 2022 applies

Analytical:

Analytical Instruments Calibrated Using NMI Traceable Standards.

Certification Numbers: ND38434-20211028, A679, A650, ND38462-20211027, ND18363-20211104, ND50144-20201218

No effecting environmental conditions during analysis.

*NMI is recognized by NIST through the Mutual Recognition Agreement (CIPM MRA).

CALGAZ calibration devices were found to meet all applicable requirements of the National Highway Traffic Safety Administration Model Specifications for calibrating units for breath alcohol testers.

Manufactured Date: July 13, 2022

APPROVED BY: _____



"We certify that all the cylinders for the Lot numbers identified herein are manufactured and tested within the requirements of CFR 49 part 178.65 and that physical and chemical test reports are on file and copies will be furnished upon request."

CALGAZ, a division of Airgas USA LLC
821 Chesapeake Drive, Cambridge, MD 21613-0149
Phone: (410) 228-6400 Fax: (410) 228-4251

CERTIFICATE OF ANALYSIS

EBS - ETHANOL BREATH STANDARD

Sales order: 1111709457
Date: July 19, 2022

NJSP

METHOD OF ANALYSIS: IR Breath Alcohol Analyzer
ANALYTICAL ACCURACY: +/-0.002 BrAC or +/-2% whichever is greater.
CALGAZ LOT#: 302-402488144
ETHANOL IN NITROGEN

Product Expiration: July 15, 2025

COMPONENT	PPM	(BrAC)
ETHANOL	781.5PPM	(0.300)
NITROGEN	BAL	
AVERAGE ANALYTICAL VALUE	PPM	(BrAC)
ETHANOL	785.3	(0.301)

REFERENCE STANDARD	CYLINDER	CONCENTRATION PPM
N.M.I. TRACEABLE STANDARDS*	ND38434	260.4

* CERTIFICATION TRACEABLE TO NATIONAL METROLOGY INSTITUTE TRACEABLE STANDARDS

TRACEABILITY

Preparation:

Gas mixtures manufactured with balances calibrated by an ISO 17025 accredited company using NIST traceable weights and meets or exceeds the requirements of NIST Handbook 44.

Calibration test 283192, dated 6th January 2022 or calibration test 292029, 292030 or 292031, dated 26th March 2022 applies

Analytical:

Analytical Instruments Calibrated Using NMI Traceable Standards.

Certification Numbers: ND38434-20211028, A679, A650, ND38462-20211027, ND18363-20211104, ND50144-20201218

No effecting environmental conditions during analysis.

*NMI is recognized by NIST through the Mutual Recognition Agreement (CIPM MRA).

CALGAZ calibration devices were found to meet all applicable requirements of the National Highway Traffic Safety Administration Model Specifications for calibrating units for breath alcohol testers.

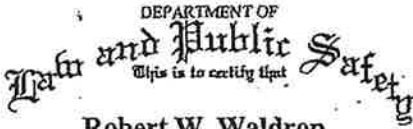
Manufactured Date: July 15, 2022

APPROVED BY:



"We certify that all the cylinders for the Lot numbers identified herein are manufactured and tested within the requirements of CFR 49 part 178.65 and that physical and chemical test reports are on file and copies will be furnished upon request."

CALGAZ, a division of Airgas USA LLC
821 Chesapeake Drive, Cambridge, MD 21613-0149
Phone: (410) 228-6400 Fax: (410) 228-4251



Robert W. Waldrop

Breath Test Coordinator/Instructor

IS QUALIFIED AND COMPETENT TO CONDUCT CHEMICAL BREATH ANALYSES PURSUANT TO CHAPTER 142 OF

THE LAWS OF 1964 IN THE OPERATION OF THE Alcotest 9510
A METHOD TO DETERMINE INTOXICATION
GIVEN UNDER MY HAND AT TRENTON, NEW JERSEY THIS 25th DAY OF March

TWO THOUSAND AND Twenty Four

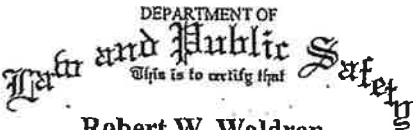
[Signature]
COLONEL
NEW JERSEY STATE POLICE

[Signature]
ATTORNEY GENERAL
STATE OF NEW JERSEY

ORIGINAL COURSE DATES

DATE	Refresher Course PLACE	INSTRUCTOR
1.		
2.		
3.		
4.		
5.		
6.		
7.		
8.		
9.		

S.P. 293B (Rev. 10/22)



Robert W. Waldrop

New Jersey State Police

IS QUALIFIED AND COMPETENT TO CONDUCT CHEMICAL BREATH ANALYSES PURSUANT TO CHAPTER 142 OF

THE LAWS OF 1964 IN THE OPERATION OF THE Alcotest 9510
A METHOD TO DETERMINE INTOXICATION
GIVEN UNDER MY HAND AT TRENTON, NEW JERSEY THIS 28th DAY OF April

TWO THOUSAND AND Twenty Three

[Signature]
COLONEL
NEW JERSEY STATE POLICE

[Signature]
ATTORNEY GENERAL
STATE OF NEW JERSEY

ORIGINAL COURSE DATES

DATE	Refresher Course PLACE	INSTRUCTOR
1.		
2.		
3.		
4.		
6.		
6.		
7.		
8.		
9.		

S.P. 293B (Rev. 10/22)