

CWMA Professional Development Committee (PDC) 2019 Annual Meeting Report

Ms. Brenda Geist, Committee Chair
Kansas

INTRODUCTION

The PDC Committee (hereinafter referred to as the “Committee”) submits this Committee Interim Report for consideration by National Conference on Weights and Measures (NCWM). This report contains the items discussed and actions proposed by the Committee during its Interim Meeting in Charleston, SC, January 13-16, 2019. The report will address the items in Table A during the Interim Meeting. Table A identifies the agenda items by reference key, title of item, page number and the appendices by appendix designations. The acronyms for organizations and technical terms used throughout the agenda are identified in Table B. The headings and subjects apply to NIST Handbook 130, “Uniform Laws and Regulations in the Areas of Legal Metrology an Engine Fuel Quality (2019),” and NIST Handbook 133, “Checking the Net Contents of Packaged Goods (2019).” The first three letters of an item’s reference key are assigned from the Subject Series List. The status of each item contained in the report is designated as one of the following: **(D) Developing Item:** the Committee determined the item has merit; however, the item was returned to the submitter or other designated party for further development before any action can be taken at the national level; **(A) Assigned Item:** the committee has assigned development of the item to a recognized subcommittee or task group within NCWM. **(I) Informational Item:** the item is under consideration by the Committee but not proposed for Voting; **(V) Voting Item:** the committee is making recommendations requiring a vote by the active members of NCWM; **(W) Withdrawn Item:** the item has been removed from consideration by the Committee.

Some Voting Items are considered individually; others may be grouped in a consent calendar. Consent calendar items are Voting Items that the Committee has assembled as a single Voting Item during their deliberation after the Open Hearings on the assumption that the items are without opposition and will not require discussion. The Voting Items that have been grouped into consent calendar items will be listed on the addendum sheets. Prior to adoption of the consent calendar, the Committee will entertain any requests from the floor to remove specific items from the consent calendar to be discussed and voted upon individually.

Committees may change the status designation of agenda items (Developing, Assigned, Informational, Voting and Withdrawn) up until the report is adopted, except that items which are marked Developing, Informational or Withdrawn cannot be changed to Voting Status. Any change from the Committee Interim Report (as contained in this publication) or from what appears on the addendum sheets will be explained to the attendees prior to a motion and will be acted upon by the active members of NCWM prior to calling for the vote.

An “Item Under Consideration” is a statement of proposal and not necessarily a recommendation of the Committee. Suggested revisions are shown in **bold face print** by ~~striking out~~ information to be deleted and underlining information to be added. Requirements that are proposed to be nonretroactive are printed in *bold faced italics*. Additional letters, presentations and data may have been part of the Committee’s consideration. Please refer to <https://www.ncwm.net/meetings/annual/publication-16> to review these documents.

All sessions are open to registered attendees of the conference. If the Committee must discuss any issue that involves proprietary information or other confidential material; that portion of the session dealing with the special issue may be closed if (1) the Chairman or, in his absence, the Chairman-Elect approves; (2) the Executive Director is notified; and (3) an announcement of the closed meeting is posted on or near the door to the meeting session and at the registration desk. If possible, the posting will be done at least a day prior to the planned closed session.

Note: It is policy to use metric units of measurement in publications; however, recommendations received by NCWM technical committees and regional weights and measures associations have been printed in this publication as submitted. Therefore, the report may contain references to inch-pound units.

Subject Series List

Education	EDU Series
Program Management.....	PMT Series
Other Items.....	OTH Series

**Table A
Table of Contents**

Reference Key	Title of Item	PDC Page
EDU – EDUCATION		3
EDU-1 I	Professional Certification Program	3
EDU-2 I	Training	6
EDU-3 I	Instructor Improvement	11
EDU-4 I	Recommended Topics for Conference Training	14
PMT – PROGRAM MANAGEMENT		17
PMT-1 I	Safety Awareness	17

**Table B
Glossary of Acronyms and Terms**

Acronym	Term	Acronym	Term
ADDIE	Analysis, Design, Development, Implementation, and Evaluation	NEWMA	Northeastern Weights and Measures Association
ANSI	American National Standards Institute	NIST	National Institute of Standards and Technology
BOK	Body of Knowledge	OWM	Office of Weights and Measures
CWMA	Central Weights and Measures Association	PDC	Professional Development Committee
ISO	International Standardization Organization	RSA	Registered Service Agents
ICE	Institute for Credentialing Excellence	SME	Subject Matter Expert
NCWM	National Conference on Weights and Measures	SWMA	Southern Weights and Measures
		WWMA	Western Weights and Measures Association

Details of All Items
(In order by Reference Key)

1 **EDU – EDUCATION**

2 **EDU-1 I Professional Certification Program**

3 The NCWM presently has six professional certification exams and two basic competency exams. The certification
4 exams include Retail Motor Fuel Dispensers, Vehicle-Tank Meters, Small Capacity Scales, Medium Capacity Scales,
5 Large Capacity Scales, and Basic Package Checking. The competency exams include Basic Weighing Devices and
6 Basic Liquid-Measuring Devices. Professional certifications must be renewed every five years. The NCWM is
7 implementing a process to notify candidates whose certificates are expiring each quarter.

8 At the 2018 Annual Meeting, the Certification Coordinator reported on progress on the LPG Liquid Measuring exam.
9 He announced that work was progressing with NIST OWM to implement TP-27, a product of the API, ASTM and
10 Gas Processors Association. TP-27 provides an electronic algorithm for computing temperature corrections to liquid
11 volume that supersedes ASTM Table 24. The work with OWM also corrects minor errors in another table (Table 2)
12 used to calculate uncompensated (gross) errors. OWM used the new tables in training provided in June in Ohio, and
13 they plan to make a broad distribution of the new tables shortly. States will not have to make procedural changes to
14 calculations or forms; just substitute the new tables for the old ones, i.e. new Table 24E for Table 24 and new Table
15 2 for old Table 2. The NCWM exam will use the new OWM tables and plans to publish them with the exam
16 announcement so people can become familiar with them before taking the exam.

17 Work is also progressing on the exam for precision scales. These are predominantly Class 1 and Class II devices used
18 in pharmacy, jewelers, and cannabis applications. After that the present priority list has price verification as the next
19 exam in the pipeline. The Committee encourages dialog on the priorities for future development of exams. Please let
20 the Committee know what areas should be getting priority.

21 The NCWM Board has approved the rules for candidates and proctors. Proctoring is a vital component of any future
22 plans to get our certification program accredited. Executive Director Don Onwiler has worked with counsel to create
23 legal terms of agreement for proctors which has been sent to states so they can begin selecting proctors. The Board
24 decided to send a notice to state directors allowing 30 days for states to get their proctors signed up. After the 30 days,
25 all exams require a proctor. With proctoring in place, the NCWM can begin hosting the basic competency exams.
26 Under the proctoring agreement the proctor's organization will provide the computer access and ensure details in the
27 proctoring agreement are met. Only materials authorized in the exam announcement will be allowed and these will be
28 collected before the candidate leaves the room.

29 The process for taking an exam will still require the candidate to log in with their credentials. However, the candidate
30 will only get access to the exam after the proctor logs in with their credentials. The candidate may still log in without
31 a proctor to view their exam history and to reprint certificates. Candidates should take care to retain their credentials
32 for this purpose.

33 Since the Annual Meeting, a few additional changes had to be made to the proctoring rules. These changes attempt to
34 accommodate states that are proctoring the exam for multiple candidates all at the same time. This can create hardships
35 for the proctoring organization in that they would have to have multiple copies of the allowed reference materials, like
36 Handbooks 44 or 133. The NCWM Executive Director has worked out a compromise that allows the use of an
37 electronic version of the reference materials prepared by NCWM and have this accessible on the computer used to
38 take the exam. Alternatively, they could print hard copies of the pdf file for candidates to use during the exam. The
39 pdf file for Retail Motor Fuel Devices, for example, would include Handbook 44 Introduction, General Code, LMD
40 Code, and Appendices A, C, and D. These pdf files will be accessible through the exam announcement and candidates
41 may download the files to practice with them prior to taking the exam.

1 In addition, the NCWM has decided to create two tiers of proctors. The first-tier proctor may proctor only basic
 2 competency exams for either public sector or private sector candidates. These proctors will be permitted to be direct
 3 supervisors of the public sector candidates, which is not permitted in the rules originally proposed for professional
 4 certification. The second tier may proctor both basic competency exams and professional certification exams. These
 5 proctors may not be direct supervisors of the candidates as originally specified in the proctoring rules.

6 At its spring meeting, the Board reviewed the proposed exit survey questions prepared by the Committee to get
 7 feedback on the certification exams. The Committee met during the Annual Meeting to respond to the Board's
 8 concerns regarding the length of the survey and necessity of specific questions. The Committee streamlined the survey
 9 and hopes the survey will be implemented in the near future. After taking an exam, the plan is to provide the candidate
 10 with a link to take the survey, and a link to the survey from the certification section of the NCWM website.

11 **Status of Current Tests**

12 The NCWM has issued 1,042 professional certificates from the inception of the Professional Certification Program to
 13 September 30, 2018. Of the certificates issued, eleven have been issued to individuals in the private sector (three for
 14 small scales, two for package checking, and one for retail motor-fuel dispensers). The balance of the certificates has
 15 been issued to regulators. It is important to note that some of the early certificates have reached their 5-year expiration.
 16 Those who earned certificates over five years ago will need to seek recertification. The Committee is working with
 17 NCWM staff to alert certificate holders prior to expiration. Both the Committee and NCWM are hopeful this will help
 18 facilitate with recertification. The NCWM Executive Director has advised the Committee he will work with staff to
 19 begin notifying expiring certificates holders several months in advance. This would allow certificate holders time to
 20 prepare before retaking the exams.

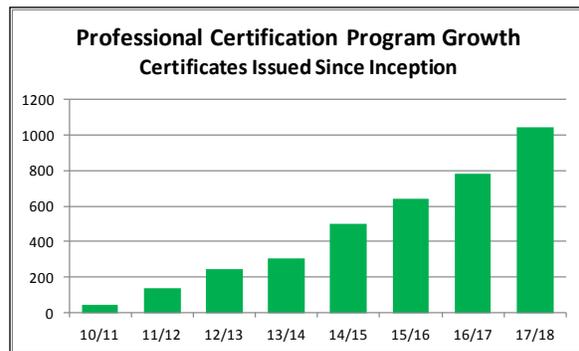
21 Number of Certificates NCWM has Issued as of the end of Fiscal Year 2017/18 (September 30, 2018)

	FY10-11	FY11-12	FY12-13	FY13-14	FY14-15	FY15-16	FY16-17	FY17-18
Exams Pass	44	94	105	62	198	140	142	257
Cumulative	44	138	243	305	503	643	785	1,042

22

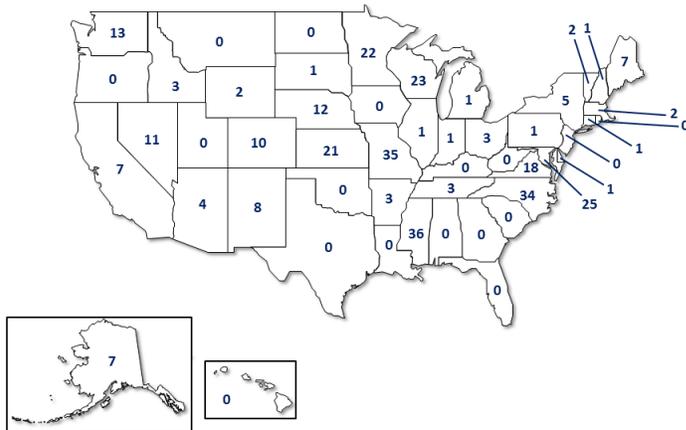
Certification (posted)	Certificates
RMFD (5/2010)	364
Small Scales (8/2012)	249
Package Checking (8/2012)	167
Medium-Capacity Scales (4/2015)	112
Large-Capacity Scales (4/2015)	74
Vehicle-Tank Meters (4/2015)	76

23



24 The following map includes the states with individuals holding an active certificate in one or more disciplines. Please
 25 note that the eleven active certificates issued to private sector individuals are included in these figures, e.g. the three
 26 certificates in Arkansas are private sector individuals. This data only includes certificates which have not expired as
 27 of September 30, 2018.

Distribution of Certified Professionals per State
Updated: September 2018



1
 2 The list below shows those states with the highest utilization of the program. The table values include activity since
 3 program inception and may include expired certificates. The Committee applauds these states and encourages
 4 increased use of the certification program nationwide.

State	Certificates	State	Certificates
Minnesota	152	Maine	26
Missouri	143	New Mexico	23
Maryland	77	Nevada	22
Virginia	70	New York	19
Wisconsin	67	Colorado	15
Mississippi	53	Connecticut	15
North Carolina	50	Indiana	13
Washington	50	Ohio	13
California	41	Private	12
Kansas	40	Idaho	11
Alaska	35	Massachusetts	11
Nebraska	33		

5
 6 At the 2019 Interim Meeting, it was announced by Gene Robertson, Committee Chair, that Ross Anderson would be
 7 stepping down as the Certification Coordinator at the end of the annual meeting in July. Jerry Buendel WA-Retired
 8 will take over the position. Jerry was contacted this past October to succeed Rose and has been working closely with
 9 Ross and NCWM office to make it a smooth transition.

10 Ross Andersen, Certification Coordinator, reported that there were minor discrepancies between two databases that
 11 contain the data on professional certifications. One database is maintained by the test site electronically based on
 12 exams taken, and the other is maintained by NCWM staff manually. Shortly after the Interim Meeting the Coordinator
 13 worked with NCWM staff to find the errors and correct them. Several entries on the test site were not actual exams
 14 taken by candidates but rather by staff to evaluate the exam deployment. These have been removed. There were a
 15 small number of data entry errors or missing entries in the manual NCWM database that were also corrected. The two
 16 databases are now synchronized up to the end of fiscal year 2017/18. The data reported in the annual report and in the
 17 charts above reflect the corrected figures. This synchronization will become a part of the annual program maintenance
 18 in the future.

1 **Regional Association Comments:**

2 WWMA 2018 Annual Meeting: The WWMA Professional Development Committee heard no comments during the
 3 open hearings. The WWMA fully supports the efforts of the NCWM PDC in developing additional exams, and the
 4 administration and improvement of the current exams.

5 NEWMA 2018 Interim Meeting: There were supportive comments for the Professional Certification program to move
 6 forward with the precision scale certification exam. With more states adopting the sale of cannabis there will be a
 7 growing need for proficiency in this area.

8 SWMA 2018 Annual Meeting: The Chairman informed the conference that since the proctoring started September
 9 1st, the process is working well. No other comments were received.

10 CWMA 2018 Interim Meeting: No comments received.

Item EDU-1
<p>Regional recommendation to NCWM on item status:</p> <ul style="list-style-type: none"> <input type="checkbox"/> Recommend as a Voting Item on the NCWM agenda <input checked="" type="checkbox"/> Recommend as an Information Item on the NCWM agenda <input type="checkbox"/> Recommend as an Assigned Item on the NCWM agenda <i>(To be developed by an NCWM Task Group or Subcommittee)</i> <input type="checkbox"/> Recommend as a Developing Item on the NCWM agenda <i>(To be developed by source of the proposal)</i> <input type="checkbox"/> Recommend Withdrawal of the Item from the NCWM agenda <i>(In the case of new proposals, do not forward this item to NCWM)</i> <input type="checkbox"/> No recommendation from the region to NCWM <i>(If this is a new proposal, it will not be forwarded to the national committee by this region)</i>
<p>Comments and justification for the regional recommendation to NCWM: <i>(This will appear in NCWM reports)</i></p> <p>The Committee heard no comments. The CWMA supports the continued efforts of the NCWM developing the Precision Scale exam and any additional exams.</p>

11 **EDU-2 I Training**

12 The purpose of this item is to share best practices and approaches to training in response to the broad training needs
 13 of weights and measures jurisdictions and to serve as a link to various training materials on the web.

14
 15 Tina Butcher (NIST OWM) has continued to provide updates on training provided to the weights and measures
 16 community by NIST OWM. At the 2018 NCWM Annual Meeting, the Committee agreed that OWM could simplify
 17 these reports by reporting activities based on the calendar year

18 OWM personnel were unable to attend the 2019 NCWM Interim Meeting due to the Federal Government shutdown
 19 in early 2019 due to a lack of appropriations. However, OWM provided content for the Committee’s Interim Report
 20 regarding NIST OWM training conducted in calendar year 2018. This is summarized below followed by a listing of
 21 upcoming OWM training for the remainder of 2019 and the first part of 2020 is included below for reference.
 22

NIST OWM Training Conducted in 2018			
Area/Course Name	Start Date	Location	Number of Students
Laboratory Metrology			
Advanced Mass Seminar	08/13/18	Gaithersburg, MD	6
Balance & Scale Calibration Uncertainties	01/09/18	Gaithersburg, MD	10

Fundamentals of Metrology	02/05/18	Gaithersburg, MD	12
	02/12/18	Gaithersburg, MD	12
	04/16/18	Gaithersburg, MD	11
	06/11/18	Gaithersburg, MD	11
	05/14/18	Gaithersburg, MD	9
	10/29/18	Gaithersburg, MD	8
Mass Metrology Seminar	10/15/18	Gaithersburg, MD	9
Selecting Field Standards and Hoisting, General Safety	05/08/18	Saratoga Springs, NY	16
	05/22/18	Springfield, IL	42
Volume Metrology Seminar	06/04/18	Gaithersburg, MD	7
Regional Measurement Assurance Programs			
MidAmerica Measurement Assurance Program	10/01/18	St. Paul, MN	32
Northeastern Measurement Assurance Program	09/10/18	Montpelier, VT	17
Southeastern Measurement Assurance Program	04/30/18	Biloxi, MS	24
Southwestern Assurance Program	09/17/18	Oklahoma City, OK	17
Western Regional Assurance Program	05/07/18	Salt Lake City, UT	16
Info Hours & Other			
State Lab Workload Survey	01/09/18	Web-based	37
Statistics for Metrology Work Group	01/23/18	Web-based	24
ISO/IEC 17025 – 2017 Edition	01/30/18	Web-based	59
Procedure Updates	02/27/18	Web-based	49
Publication Reviews	03/27/18	Web-based	41
Measurement Assurance Assessments	06/19/18	Web-based	67
Webinars			
Basic Uncertainty Concepts	01/18/18	Web-based	11
Calibration Certificate Evaluation	02/01/18	Web-based	4
Conducting an Effective Management Review	02/15/18	Web-based	10
Contract Review	08/09/18	Web-based	7
Calibration Method Validation	02/22/18	Web-based	15
Document Control and Record Keeping	08/30/18	Web-based	9
Internal Auditing Best Practices	03/01/18	Web-based	7
	10/18/18	Web-based	4
Measurement Systems for Legal Metrology	08/01/18	Web-based	8
	11/07/18	Web-based	4
Software Verification & Validation	03/15/18	Web-based	9
State Laboratory Annual Submission Process	09/06/18	Web-based	62
Packaging & Price Verification			
NIST HB 133 – Checking the Net Contents of Packaged Goods, Volumetric Measurement	02/02/18	San Diego, CA	12
NIST Handbook 130 – Uniform Packaging and Labeling Regulations	3/12/18	Orange County, CA	22
	06/05/18	Cleveland, OH	16
NIST HB 133 – Checking the Net Contents of Packaged Goods, Basic	3/26/18	Lebanon, MO	19
	04/16/18	Montgomery, AL	16
	05/14/18	Plantation, FL	18
	10/22/18	Baton Rouge, LA	16
	11/05/18	Needham Heights, MA	11
NIST Handbook 130 – Price Verification	02/09/18	San Diego, CA	15
	05/18/18	Plantation, FL	21
	10/26/18	Baton Rouge, LA	23
Legal Metrology Devices			
Compressed Natural Gas Retail Motor-Fuel Dispensers	04/16/18	Sacramento, CA	16

Liquefied Petroleum Gas Liquid-Measuring Systems	05/14/18	Sacramento, CA	24
	06/11/18	Reynoldsburg, OH	19
Livestock and Animal Scales	04/10/18	Harrisonburg, VA	14

1

NIST OWM Training Scheduled for 2019 and 2020			
Area/Course Name	Dates	Location	
Laboratory Metrology			
Advanced Mass Seminar	04/29/19 - 05/09/19	Gaithersburg, MD	
Fundamentals of Metrology	03/04/19 - 03/15/19	Gaithersburg, MD	
	03/11/19 - 03/15/19	Gaithersburg, MD	
	08/19/19 - 08/23/19	Gaithersburg, MD	
Fundamentals of Metrology – SIM Participants Only	03/18/19 - 03/22/19	Gaithersburg, MD	
	08/19/19 - 08/23/19	Gaithersburg, MD	
Mass Metrology Seminar	04/08/19 - 04/18/19	Gaithersburg, MD	
	10/21/19 - 11/01/19	Gaithersburg, MD	
Volume Metrology Seminar	08/12/19 - 08/16/19	Gaithersburg, MD	
Regional Measurement Assurance Programs			
Combined Regional Measurement Assurance Program	06/02/19 – 06/06/19	Lake Mary, FL	
CRMAP-Tutorial-Certified Calibration Technician Prep	5/31/19 – 06/02/19	Lake Mary, FL	
CRMAP-Tutorial-Assessing & Reporting Measurement Uncertainty	5/31/19 – 06/02/19	Lake Mary, FL	
CRMAP-Tutorial- Selection, Cal, Use of Thermometers	5/31/19 – 06/02/19	Lake Mary, FL	
CRMAP-Balance and Scale Calibration Uncertainties	5/31/19 – 06/02/19	Lake Mary, FL	
Webinars			
Basic Uncertainty Concepts	04/24/19	Webinar	
Calibration Certificate Evaluation (2-day session)	08/06/19 & 08/08/19	Webinar	
Conducting an Effective Management Review	03/07/19	Webinar	
	02/13/20	Webinar	
Contract Review	08/15/19	Webinar	
Document Control and Record Keeping	08/29/19	Webinar	
Internal Auditing Best Practices	02/21/19	Webinar	
	10/24/19	Webinar	
	02/27/20	Webinar	
Measurement Systems for Legal Metrology	06/12/19	Webinar	
Software Verification & Validation – Part 1	04/11/19 & 04/25/19	Webinar	
State Laboratory Annual Submission Process	09/12/19	Webinar	
Packaging & Price Verification			
NIST HB 130 – Uniform Packaging/Labeling Regs	10/28/19 - 10/31/19	Avenel, NJ	
NIST HB 133 – Checking Net Contents of Packaged Goods, Basic	04/01/19 - 04/04/19	Gaithersburg, MD	
	04/15/19 - 04/18/19	Glendale, AZ	
	10/16/19 - 10/17/19	Richmond, VA	
Webinars			
NIST Handbook 130 – Price Verification	06/18/19	Webinar	
NIST HB 130 – Overview Packaging/Labeling Reg	06/19/19	Webinar	
Legal Metrology Devices			
Liquefied Petroleum Gas Liquid-Measuring Systems	06/24/19	Nashville, TN	
Retail Motor-Fuel Dispensers, 3-Day Course (CWMA)	05/06/19	Canton, OH	
Retail Motor-Fuel Dispensers, 3-Day Course (WWMA)	09/19	Park City, UT	
Vehicle-Tank Meters & Loading-Rack Meters	06/10/19	Lawrence, KS	

A complete list of upcoming OWM training events is available on the calendar of events on the OWM website at:

<https://www.nist.gov/pml/weights-and-measures/about-owm/calendar-events>

At the 2018 Annual Meeting, Ms. Butcher noted the NIST Office of Weights and Measures (OWM) has been asked by multiple Regional Weights and Measures Associations (Regionals) to offer training seminars in conjunction with their annual meetings. OWM welcomes and appreciates the opportunity to offer training in this venue and reach multiple jurisdictions at once. To assist in planning for training in 2019 and in developing materials for future courses, OWM has asked for feedback from each Regional. Drawing from its full list of training topics, OWM identified topics on which OWM is prepared to offer training at the 2019 Regional meetings (and would lend themselves to the time constraints of a Regional) as shown below and distributed this list to each Region’s main point of contact at the beginning of June.

Packaging and Labeling and Price Verification:	
	Price Verification Test Procedures (1-2 days)
	Uniform Packaging & Labeling Regulation (4 days)
	Uniform Packaging & Labeling Regulation – Overview (1 day)
	NIST Handbook 133 – Chapters 1 and 2, Gravimetric Testing (4 days)
	NIST Handbook 133 – Chapters 1 and 2, Gravimetric Testing – Overview (1 day)
Devices:	
	Livestock and Animal Scales (3 days)
	Medium-Capacity Scales (3 days)
	Retail Computing Scales (3 days)
	Retail Motor-Fuel Dispensers Short Course (3-1/2 days)
	Selection and Testing of Reference Scales (1 day)
	Vehicle and Axle-Load Scales (3 days)
	Vehicle-Tank Meters (3 days)

OWM hopes to identify one or two training topics that would be of interest to multiple Regionals to help maximize the use of its resources in preparing for the training. OWM is also seeking feedback from the Regionals and others on ideas for *future* topics that may be needed to assist jurisdictions with addressing changes in technology and marketplace practices.

OWM discussed these training options with the regions during their scheduled meetings Wednesday morning at the Annual Meeting. Mrs. Butcher also noted OWM would like to use a similar approach of obtaining regional input each year to help OWM better meet any requests for training by OWM that the regions might have.

At the Interim Meeting 2019, it was requested that the Committee consider reviewing and potentially updating/reintroducing the old NIST OWM training modules. The Committee is not sure whether these modules are still available in digital form but will investigate.

Ross Andersen (NY, retired) indicated that NIST has extensive training materials that we could leverage; requesting these materials from NIST may be beneficial.

The state of Kansas communicated some upcoming training they had planned; this training will cover both VTM and load rack training and will be held for 5 days starting June 10.

We were reminded of the NIST metrology training in Florida:

- Combined Regional Measurement Assurance Program (C-RMAP) Tutorial 1-4
 - May 31 - June 2, 2019
- Combined Regional Measurement Assurance Program (C-RMAP)
 - June 2 – 6, 2019

Three states recommended that NCWM and NIST OWM consider joint development of training videos, and investigate funding from additional sources (grants, etc.).

1 **Regional Association Comments:**

2 WWMA 2018 Annual Meeting: The WWMA Professional Development Committee heard the following comments
3 during open hearings:

- 4
- 5 • John Young (Yolo County, CA) would like to have the following training offered by NIST at the WWMA
6 annual meeting: Gravimetric testing for mass flow meters and liquid measuring devices such as CNG, LNG,
7 Hydrogen, and bulk oil; electric vehicle charging stations; and training on how to select the proper master
8 meter for different products.
- 9 • Tina Butcher (NIST OWM) would like the various regions to begin discussions as early as possible regarding
10 training requests for the 2020 and beyond regional meetings. There are a limited number of NIST trainings
11 courses that will fit into the schedule for a regional meeting, the NIST OWM would like each region to
12 prioritize the type of trainings from the list currently offered by NIST. Other considerations would be
13 equipment requirements available to conduct the training.
- 14 • Kipp Blauer (NV) would like precision scale training focused on scales used to weigh tobacco-like products.
15 Training should be targeted on the practical use of the scales, rather than NTEP requirements.
- 16 • Tina Butcher stated that NIST, being a federal government agency, could not conduct training specifically
17 related to the cannabis industry.
- 18 • Kevin Merritt (ID) would like training on gravimetric testing of bulk oil meters.
- 19 • Marco Mares (San Diego County, CA) would also like to see a course on gravimetric testing.
- 20 • Cathy Fisher (Santa Barbara County, CA) would like training on precision scales and package labeling. Cathy
21 also mentioned that the 2018 Farm Bill now allows the growing of industrial hemp in all states with regulatory
22 programs.
- 23 • Jerry Johnson (WY) would like training on forklift scales.
- 24 • Tina Butcher suggested the WWMA PDC committee poll the western region states to select the top three
25 topics for training offered by NIST at the regionals.
- 26 • Stan Toy (Santa Clara County, CA) wanted clarification as to whether gravimetric training currently offered
27 by NIST would be applicable to the bulk oil and other device training requested by other jurisdictions. Tina
28 responded that this training was focused on packaged products.
- 29 • Brett Gurney (UT) would like training on audit trails
- 30

31 NEWMA 2018 Interim Meeting: Concerns were given regarding the ability to send multiple employees to out of state
32 training due to budgetary issues. States can have different training qualifications for inspectors and sealers. Walt
33 Remmert (PA) voiced support and a desire for NIST to produce video training that can be easily accessed by
34 jurisdictions. Videos on inspections and EPO'S would be valuable for jurisdictions to use. Related comments were
35 made that this form of recorded on line education could reach many more inspectors than hands on training.
36 Recommendations for Safety to be included in future training was supported. The committee encourages NIST to
37 explore the possibility of producing video trainings that can be made available to jurisdictions. The Committee would
38 like to thank our NIST partners for their continued assistance with training and technical work.

39

40 SWMA 2018 Annual Meeting: The chairman informed the conference that NIST will use the top 4 or 5 training
41 topics from the list submitted by each of the regions for future training.

42

43 CWMA 2018 Interim Meeting: A regulator requested that all NIST online training modules to be online and easily
44 accessible.

Item EDU-2
<p>Regional recommendation to NCWM on item status:</p> <p> <input type="checkbox"/> Recommend as a Voting Item on the NCWM agenda <input checked="" type="checkbox"/> Recommend as an Information Item on the NCWM agenda <input type="checkbox"/> Recommend as an Assigned Item on the NCWM agenda <i>(To be developed by an NCWM Task Group or Subcommittee)</i> <input type="checkbox"/> Recommend as a Developing Item on the NCWM agenda <i>(To be developed by source of the proposal)</i> <input type="checkbox"/> Recommend Withdrawal of the Item from the NCWM agenda <i>(In the case of new proposals, do not forward this item to NCWM)</i> <input type="checkbox"/> No recommendation from the region to NCWM <i>(If this is a new proposal, it will not be forwarded to the national committee by this region)</i> </p>
<p>Comments and justification for the regional recommendation to NCWM: <i>(This will appear in NCWM reports)</i></p> <p>The committee heard no comments. Kansas will be having the VTM and Load Rack meter classes starting on June 10th. This class is full. There will be a LPG class offered in Nashville, TN starting on June 24th. This class still has openings and are looking for participants to attend.</p>

1 **EDU-3 I Instructor Improvement**

2 NIST OWM has provided legal metrology training for weights and measures jurisdictions and industry for many
 3 years but does not have the resources to respond to the numerous training requests it receives. OWM has long
 4 recognized that there are many individuals with extensive legal metrology experience who have the skills needed
 5 to provide this type of training. OWM hopes to draw from this pool to develop trainers who can present schools
 6 with NIST, thus leveraging NIST resources; providing more timely classes; and providing a way to more broadly
 7 share the valuable expertise these individuals possess.

8
 9 Several years ago, OWM renewed its efforts to develop trainers by providing a grant to the NCWM which is
 10 intended to pay travel costs of individuals to travel within their regions to conduct training and to participate in
 11 NIST training for trainers. This partnership has enabled NIST to bring in candidates for NIST-sponsored training
 12 such as “train the trainer” classes and to participate in NIST technical training schools. Through an application
 13 process, in collaboration with weights and measures directors and nominated training candidates, NIST has
 14 identified a group of people who are now working with NIST to develop the knowledge, skills, and abilities to work
 15 with NIST staff in presenting technical training schools. A number of candidates in the NIST Trainer Program
 16 have already served as co-instructors for NIST technical training schools and have done an excellent job. OWM
 17 sincerely appreciates the willingness of those trainers and their directors who have supported their participation to
 18 devote time to making these seminars successful.

19
 20 NIST training seminars on field inspection topics are only held a limited number of times each year. This poses a
 21 challenge in sustaining regular interaction and involvement of NIST trainer candidates. NIST does not have the
 22 resources to develop and sustain the development of all the trainers it has invited to participate in the NIST trainer
 23 program activities and events held over the past several years; however, even if a candidate is not designated to
 24 participate as an instructor in a NIST seminar, they and their jurisdictions can benefit from the experience and the
 25 candidate can still provide valuable training in their jurisdiction and region.

26
 27 A list of all people who have attended a NIST “Train the Trainer” class or associated event has been posted on the
 28 NCWM website. Many people on this list have attended NIST “train the trainer” events and workshops but have
 29 not served as co-instructors for NIST classes and, in some cases, have not attended NIST technical training schools
 30 in the areas in which they are interested in serving as trainers. Conversely, there are people on this list who have
 31 attended the workshops and NIST technical training seminars and have also served as co-instructors in NIST
 32 training seminars. Because of the variations in experience levels of individuals on this list and because OWM has
 33 not authorized anyone (external to NIST) to independently present “NIST” classes and is still refining the program

1 infrastructure, confusion has arisen in the weights and measures community regarding classes that these individuals
2 may present on their own. NIST and NCWM are considering how to best depict these listings to reflect the status
3 of the trainers listed such that confusion can be avoided in the future
4

5 OWM appreciates the strong support of the NCWM, the PDC, the volunteer trainers, and their administrators in
6 continuing to develop the NIST Trainer Program. OWM will continue to provide the Committee with updates on
7 its progress as well as continue to collaborate with and support the Committee in its work.
8

9 The Committee continues to hear comments from States expressing appreciation for the NCWM Professional
10 Certification Program and the NIST Training Program. The Committee also heard favorable comments about the
11 training materials and tools provided by NIST, including a video on testing retail motor-fuel dispensers (RMFDs).
12 As noted in Item 410-2, the NIST video is divided into segments focusing on specific parts of the RMFD test
13 procedure that can be used to supplement and enhance instructor-led training. The video can be accessed through
14 OWM's home page or by going directly to the following link: [http://www.nist.gov/pml/wmd/lmdg/training-](http://www.nist.gov/pml/wmd/lmdg/training-materials.cfm)
15 [materials.cfm](http://www.nist.gov/pml/wmd/lmdg/training-materials.cfm).

16
17 The Committee has reiterated multiple times in the past that the responsibility for training employees rests with
18 individual organizations (weights and measures jurisdictions and industry alike). While NIST and other training
19 providers offer excellent sources of training and training materials, organizations must develop and manage their
20 own training programs, including developing trainers; establishing individual development plans for employees;
21 and identifying strategies for continually assessing and responding to training needs. The Committee recognizes
22 that NIST OWM cannot possibly train all weights and measures inspectors in the country. The state and municipal
23 jurisdictions have ultimate responsibility for training and qualifying their personnel. To fulfill this responsibility,
24 jurisdictions should be making individual plans to maintain or bolster their training efforts. NIST OWM should be
25 viewed as one vital resource to support that effort. The Professional Development Committee is another resource.
26 The Committee has created and posted on its website, the "Body of Knowledge" to establish uniform learning
27 objectives for weights and measures professionals. In addition, the Committee has posted a Model Field Training
28 Program document on its website. This program outlines methods to evaluate and document training and offers
29 guidance on training new inspectors and taking steps to ensure their ongoing development.
30

31 These initiatives require competent and qualified trainers and a centralized management plan within the jurisdiction.
32 The Committee is continuing to work, in partnership with NIST OWM, to identify the basic competencies of those
33 trainers and training managers so that jurisdictions can find the right people to manage and deliver training
34 internally. It's not enough just to be technically competent in a subject area to be a good trainer or to effectively
35 manage a training program. It takes other tools, such as:
36

- 37 • ability to assess employee competence and training needs,
- 38 • ability to create learning materials from technical material,
- 39 • ability to use adult learning techniques adapted to individual and group needs,
- 40 • ability to plan training activities and find appropriate training venues,
- 41 • ability to find creative ways to deliver training with tight budgets, and
- 42 • ability to adapt the overall training program to best serve jurisdiction goals
43

44 In 2015 OWM developed a NIST Instructor Training Program Instructor Competency Assessment and Feedback
45 Instrument that can be used as a self-assessment tool by instructors and assist them in identifying and setting goals
46 to strengthen and develop their skills as trainers. Included in this assessment tool is a broad list of competencies
47 for trainers based on a model developed by the U.S. Department of Education (see http://www.pronet2000.org/CM/content_files/70.pdf for details). For the purposes of serving as a NIST OWM trainer, only a
48 subset of these competencies may be necessary, although some trainers participating in the NIST Trainer Program
49 may be required to master more of them to meet broader training responsibilities within their own agencies. See
50 past Committee reports for additional background.
51
52

53 As previously reported, NIST OWM is authorized by IACET to issue "Continuing Education Units" for certain
54 training seminars and, as part of this authorization, there are certain provisions that an instructor must follow to meet
55 these requirements. NIST Certificates and the accompanying CEUs can only be issued if these criteria are met; this

1 includes ensuring that the material is presented consistent with the learning objectives and interpretations specified
 2 by NIST OWM and in the same time frame. OWM staff trainers have completed IACET training courses and are
 3 familiar with the procedures that OWM has implemented to ensure compliance with IACET-related requirements for
 4 NIST training courses. External trainers in the NIST Trainer Program must also understand these provisions. OWM
 5 has presented several short webinars to help its external trainers obtain the necessary training and will continue to
 6 seek opportunities to provide this training to those who have not yet completed it.

7
 8 At the 2016 Annual Meeting, Ms. Butcher reported that NIST is making an additional \$100,000 grant to NCWM to
 9 support travel and training events for the NIST Trainer program. OWM continues to work on formalizing the NIST
 10 Trainer Program. At the 2017 Annual Meeting, Ms. Butcher updated the Committee on progress on “Instructor
 11 Improvement” in the NIST Trainer Program. She noted that OWM is continuing to work on the infrastructure of the
 12 program, including documenting:

- 14 • Procedures for Selection, Evaluation, and Feedback to Instructors
- 15 • Instrument - Instructor Competency Assessment and Feedback – Overall
 - 16 ○ Based on US Dept. of Education model for overall development
- 17 • Instrument - Instructor Competency Assessment - specific courses
- 18 • Criteria for Developing Participants in NIST Instructor Training Program and Use of the NIST-NCWM
 19 Training Grant
- 20 • Instructor Agreement

21
 22 She noted that OWM information shared this information with NCWM Board of Directors at their meeting May 2017
 23 as a follow-up to discussions and a request at the Board’s January 2017 Meeting. She noted that OWM is beginning
 24 to implement these tools with its external trainers and OWM has made continual adjustments to the assessment
 25 documents based on experience. For example, the instrument which is used to provide an overall assessment of a
 26 trainer’s professional competencies can be used to help a trainer identify personal goals for improving their
 27 competencies as a trainer, including both those that NIST would require of its trainers and those that might be required
 28 of them in their own jurisdiction. However, the instrument proved overly complex for an individual learning event.
 29 Consequently, Georgia Harris (OWM) developed a scaled down version of the instrument that was tailored more
 30 toward individual learning events, but that still linked back to the overall competencies. This instrument has been
 31 used in at least two classes and a revised version will be used in courses coming up in fall 2017.

32 Ms. Butcher reported that 10 of OWM’s 44 training sessions in 2016 included non-NIST instructors assisting in the
 33 NIST OWM classes. Travel for external trainers serving as co-instructors in these classes is funded using travel from
 34 a grant provided by NIST to NCWM. She expressed appreciation to NCWM for its continued assistance in
 35 administering the grant and helping make the process of getting the trainers to these courses as smooth as possible.

36
 37 Ms. Butcher also reported that several instructor training webinars had been offered to external trainers, including
 38 webinars on Blooms Taxonomy; learning objectives; and the ADDIE model. She noted that one of NIST’s external
 39 trainers audited a “Train-the-Trainer” course offered by the American Management Association and OWM is
 40 considering if this might be a course that could be used by prospective NIST instructors in their own personal
 41 development as trainers. Ms. Butcher noted that OWM is continuing to involve external trainers in its training efforts
 42 and has been increasing their responsibilities in these seminars. She emphasized the significant impact that the
 43 external trainers have had on the success of the NIST courses and expressed appreciation for the trainers who give of
 44 their time and expertise and the directors who allow the trainers time away to assist with these courses.

45
 46 Since NIST was not in attendance at the Interim Meeting 2019, no updates were available. No comments were heard
 47 on this item.

48
 49 **Regional Association Comments:**

50 WWMA 2018 Annual Meeting: The WWMA Professional Development Committee heard no comments during the
 51 open hearings. The WWMA continues to support the ongoing efforts of the NIST/OWM Train the Trainer Program.

52
 53 NEWMA 2018 Interim Meeting: No comments received. The Committee both supports and would like to thank our
 54 NIST partners for their continued work on improving the skills of trainers.

55
 56 SWMA 2018 Annual Meeting: No comments received.

1 CWMA 2018 Interim Meeting: No comments received.
 2

Item EDU-3
<p>Regional recommendation to NCWM on item status:</p> <p><input type="checkbox"/> Recommend as a Voting Item on the NCWM agenda</p> <p><input checked="" type="checkbox"/> Recommend as an Information Item on the NCWM agenda</p> <p><input type="checkbox"/> Recommend as an Assigned Item on the NCWM agenda <i>(To be developed by an NCWM Task Group or Subcommittee)</i></p> <p><input type="checkbox"/> Recommend as a Developing Item on the NCWM agenda <i>(To be developed by source of the proposal)</i></p> <p><input type="checkbox"/> Recommend Withdrawal of the Item from the NCWM agenda <i>(In the case of new proposals, do not forward this item to NCWM)</i></p> <p><input type="checkbox"/> No recommendation from the region to NCWM <i>(If this is a new proposal, it will not be forwarded to the national committee by this region)</i></p>
<p>Comments and justification for the regional recommendation to NCWM: <i>(This will appear in NCWM reports)</i></p> <p>The committee heard no comments and the CWMA supports the continued efforts in improving instructor training.</p>

3 **EDU-4 I Recommended Topics for Conference Training**

4 The Board of Directors has charged the Committee with recommending appropriate topics for the technical sessions
 5 at future annual meetings. The Board of Directors asks the PDC to review and prioritize possible presentation
 6 topics and to submit those to the NCWM Chairman. The Chairman will coordinate with NCWM staff to secure
 7 presenters.
 8

9 The following is a list of technical presentations made at the NCWM since 2009. Presentations given since 2010
 10 are available at www.ncwm.net/meetings/annual/archive.
 11

- 12 • Planning and Coordinating a National Market Place Survey (Ms. Rachelle Miller, WI 2017);
- 13 • The Life Cycle of Petroleum from Well to Retail (Mr. Prentiss Searles, API 2017);
- 14 • The United States Mint at Denver – Gold, Coins and Embezzlement (Mr. Thomas Fesing, 2016)
- 15 • Understanding Transportation Network Systems (Ms. Andrea Ambrose Lobato, Lyft and Mr. Bob O’
 16 Leary, Uber 2016)
- 17 • Regulatory Consideration for Legalized Marijuana (Ms. Julie Quinn, MN and Mr. Nick Brechun, CO 2016)
- 18 • Motor Oil Quality Violations (Mr. Tom Glenn, Petroleum Quality Institute of America, 2014);
- 19 • Making Sense of Electronic Receipts (Mr. Justin Hotard, Vice President and General Manager, NCR
 20 Corporation, 2014);
- 21 • LNG & CNG Motor Fuel – A Technical Briefing from Industry (Mr. Doug Horne, President CVEF, Mr.
 22 Zack Wester, Blu, Mr. Jeff Clarke, NGVA, 2014);
- 23 • Taximeter Technology Advancements (Mr. Matt Daus, International Association of Transportation
 24 Regulators, 2013);
- 25 • Advanced Vehicles and Fuel Quality (Mr. John M Cabaniss, Jr., Association of Global Automakers, 2013);
- 26 • Economic Justification and Demonstrating Value of Weights and Measures (Mr. Tim Chesser, Arkansas
 27 Bureau of Standards, 2012);
- 28 • Conducting Effective Marketplace Surveys and Investigations (Ms. Judy Cardin, Wisconsin Weights and
 29 Measures, 2012);
- 30 • Public Relations and Customer Service as Regulators (Mr. Doug Deiman, Alaska Division of Measurement
 31 Standards/ CVE, 2012);
- 32 • An Overview of Unit Pricing in the United States (Mr. David Sefcik, NIST OWM, 2011);
- 33 • Grocery Unit Pricing in Australia (Mr. Ian Jarratt, Queensland Consumers Association, 2011);
- 34 • Grocery Unit Pricing in Canada (Mr. Ian Jarratt, Queensland Consumers Association, 2011);

- 1 • The U.S. Hydrogen Measuring System: The Turning Point? (Ms. Kristin Macey, California Division of
- 2 Measurement Standards, 2011);
- 3 • Corrosion in Ultra Low Sulfur Diesel Underground Storage Systems (Mr. Prentiss Searles and Ms. Lorri
- 4 Gainawi, American Petroleum Institute, 2010);
- 5 • Risk-Based Inspection Schemes (Mr. Henry Oppermann, Weights and Measures Consulting, LLC, 2010);
- 6 • Diesel Exhaust Fluid (DEF) (Mr. Gordon Johnson, Gilbarco, Inc., and Mr. Randy Moses, Wayne, 2009);
- 7 • Fuel Volatility and Ethanol Blending (Mr. Jim McGetrick, BP Products, 2009);
- 8 • Investigative Techniques (Mr. Michael Cleary, Retired, 2009)

9
 10 During open hearings at the 2016 Interim Meeting, the Committee heard a suggestion from Ms. Kristin Macey
 11 (CA) for a training session on transportation network systems. Mr. Doug Musick (KS) commented that this type
 12 of technology is showing up in applications other than just passenger transportation and suggested that training in
 13 GPS-based measuring systems in general would be beneficial. He noted that his jurisdiction is encountering a large
 14 number of GPS-based measuring systems being used in assessing charges for the sale and application of crop
 15 fertilizers and other treatments and he noted that the monetary impact is significant.

16
 17 The Committee also heard comments from Mr. Jim Pettinato (FMC), Chairman of the NTEP Software Sector, who
 18 noted that training on issues related to inspection of software-based systems may be beneficial to weights and
 19 measures jurisdictions. He noted that, with the current progress of proposals through the NCWM process, the
 20 Sector is wrapping up its initial work and suggested that the Sector and its members might be able to assist in
 21 training on legal metrology issues relative to software-based weighing and measuring systems. Ms. Julie Quinn
 22 (MN) commented that this assistance might be particularly helpful in assisting weights and measures jurisdictions
 23 in understanding and educating inspectors and service personnel on audit trails used in these devices, and she noted
 24 that audit trail training is the most frequently requested training topic in her jurisdiction.

25
 26 The Committee appreciates the input and ideas that it has received regarding suggested training topics. Based on
 27 the comments received during its open hearings, comments from the fall 2015 regional association meetings, past
 28 suggestions, and discussions during its Interim Meeting work sessions, the Committee proposes that the BOD
 29 consider offering technical presentations on the following topics:

- 30 • Verifying Compliance of Software-Controlled Weighing and Measuring Systems
- 31 • This might include the verification of software versions, security, and other metrologically significant
- 32 issues
- 33 • Understanding Transportation Network Systems
- 34 • GPS-Based Measuring Systems Used in Applications Other Than Passenger Transport
- 35 • Vehicle-Tank Metering Systems “Flush Systems”
- 36 • Credit/Debit Card Skimmers

37
 38
 39 The Committee also discussed the audience that is typically present at NCWM Annual and Interim Meetings, noting
 40 that inspectors and service personnel are not always able to participate in these meetings. The Committee believes
 41 it would be beneficial not only to offer training on key issues such as those listed above at the NCWM meetings,
 42 but to have the training made available at regional and state weights and measures association meetings where more
 43 inspectors and service personnel would be likely to attend. Some aspects of the training might need to be tailored
 44 more toward field inspection that weights and measures administration, but much of the content should be the same.
 45 The Committee would like to collaborate with regional weights and measures associations to suggest that similar
 46 training be provided at the regional level.

47
 48 At the 2016 NCWM Annual Meeting, the Committee suggested that technical training on safety programs be
 49 included at Regional and National Meetings, including an update provided by Julie Quinn at the 2016 Annual
 50 Meeting. The Committee received no additional suggestions or comments regarding proposed training topics.

51
 52 At the Interim Meeting 2019 the following suggestions from the floor for additional topics were received:

- 53 • Investigative reporting
- 54 • D.E.F. Testing requirements, special considerations (handling, safety, equipment)
- 55 • Differentiation between weight classifier and normal rounding scales

- Organizing/publishing existing training materials

Regional Association Comments:

WWMA 2018 Annual Meeting: The WWMA Professional Development Committee heard the following comments during the open hearings:

- John Young (Yolo County, CA) recommended training related to the use of cellular phones used in commercial transactions as indicating devices, e.g. Amazon Go, EV charging, and Uber, etc.
- Kipp Blauer (NV) suggested training regarding new skimmer technology and communication with law enforcement agencies.
- Louis Straub (Fairbanks Scales) would like the PDC to consider that often the regional and national committee work sessions are held in conflict with the training seminars. The regional and national committee members and stakeholders are not able to attend the training seminars that are being offered. The field trip to the Magellan Pipeline at the NCWM Annual Meeting in Tulsa, OK. was well attended and these types of field trips might be a better alternative to the training seminars.
- Dick Suiter (Richard Suiter Consulting) suggested training related to the rental of electronic scooters using cell phones.

NEWMA 2018 Interim Meeting: No specific recommendations for future training topics for the Annual Meetings were made. There were many positive comments regarding the field trip that took place at the Tulsa OK annual meeting and an openness to consider doing something similar going forward. The Committee supports alternative technical sessions such as field trips where appropriate.

SWMA 2018 Annual Meeting: Don Onwiler (NCWM Executive Director) commented that we may want to receive from the group not only topics for conference training, but industry type tours like the one of the Magellan Terminal at the NCWM annual conference in Tulsa, OK. The Chairman received no other comments on this item.

CWMA 2018 Interim Meeting: Regulators requested that technical training be given on Livestock Scales and Monorail Scales. They would also like to see 1-2 hour training course be given for (e) verification divisions and (d) divisions. Training was requested for digital density meters. There will be technical training on Retail Motor Fuel Meters given in Canton, OH on May 6-9th, 2019 during the CWMA Annual conference running concurrently with the conference. Chris Guay from Proctor & Gamble will also be providing some training on Packaging/Labeling at the CWMA conference on May 6-9th, 2019 in Canton, OH.

Item EDU-4
<p>Regional recommendation to NCWM on item status:</p> <p> <input type="checkbox"/> Recommend as a Voting Item on the NCWM agenda <input checked="" type="checkbox"/> Recommend as an Information Item on the NCWM agenda <input type="checkbox"/> Recommend as an Assigned Item on the NCWM agenda <i>(To be developed by an NCWM Task Group or Subcommittee)</i> <input type="checkbox"/> Recommend as a Developing Item on the NCWM agenda <i>(To be developed by source of the proposal)</i> <input type="checkbox"/> Recommend Withdrawal of the Item from the NCWM agenda <i>(In the case of new proposals, do not forward this item to NCWM)</i> <input type="checkbox"/> No recommendation from the region to NCWM <i>(If this is a new proposal, it will not be forwarded to the national committee by this region)</i> </p>
<p>Comments and justification for the regional recommendation to NCWM: <i>(This will appear in NCWM reports)</i></p> <p>The committee heard no comments. The CWMA stated at the interim meeting that they would like to see Livestock training, Monorail Scale training and Digital Density Training offered at future Annual meetings. The committee discussed during our work session on the Electric Vehicle Supply Equipment (EVSE Charging Sytem) Class/Training.</p>

1 **PMT – PROGRAM MANAGEMENT**

2 **PMT-1 I Safety Awareness**

3 One of the goals of the PDC is to educate jurisdictions on safety issues and to provide resources to help them
 4 implement effective safety and health management programs. The Committee intends to use the safety page on the
 5 NCWM website (<https://www.ncwm.net/resource/safety>) as a place for states to share information and resources to
 6 help them address each of the major steps in creating and maintaining an effective safety program.
 7

8 In July 2017, the Board of Directors created the Safety Task Group to create a safety tool kit to help weights and
 9 measures organizations create or improve their own safety programs. The toolkit is complete and is posted on the
 10 NCWM website at: <http://www.ncwm.net/resource/safety>
 11

12 At the 2018 annual meeting, the NCWM BOD decided to make the task group a permanent sub-committee associated
 13 with the PDC. The newly formed Safety Awareness Subcommittee (SAS) will assume responsibility for:
 14

- 15 • Maintaining and updating the safety toolkit
- 16 • Writing and deploying the NCWM annual safety survey, as well as reporting on the results each year
- 17 • Finding resources and/or developing weights-and-measures-focused materials relating to the top hazards
 18 identified through the safety survey or through developing the toolkit
- 19 • Building a safety culture and developing safety leadership within the NCWM through participation on SAS
 20

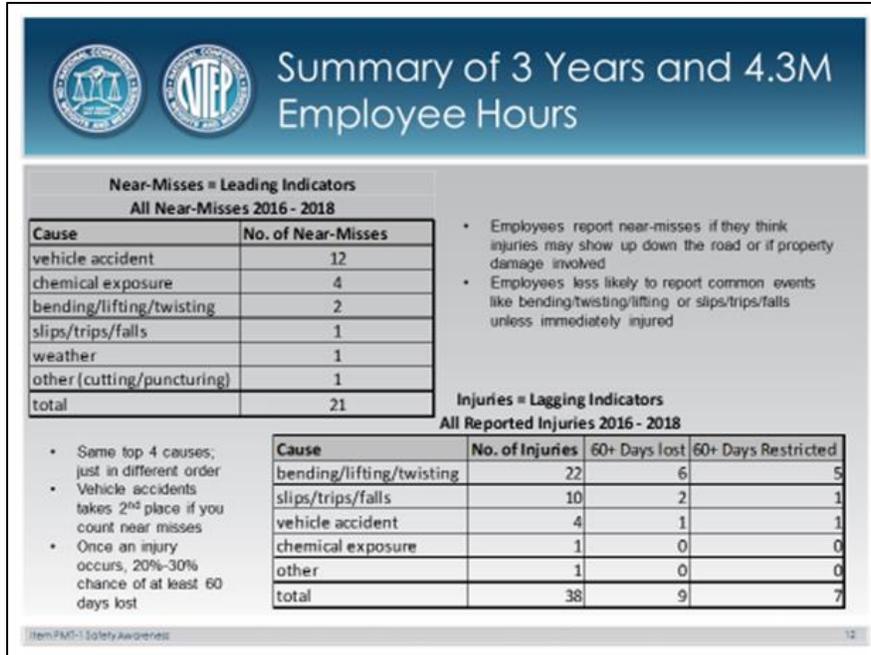
21 The SAS is currently working to improve the annual safety survey by:

- 22 • Including questions about near-miss incidents and about incidents resulting in lost or restricted time over
 23 multiple years
- 24 • Contacting counties and associate members to increase participation
- 25 • Writing an instruction guide to help participants gather the information they need before completing the
 26 survey
 27

28
 29 The results of the 2018 survey were consistent with 2016 and 2017 results. Seven injuries were reported which
 30 resulted in days-away or lost time. All incidents occurred in the field. Five of them were related to
 31 lifting/bending/twisting. The other two were related to slips/trips and falls. Six of the resulting injuries were soft
 32 tissue injuries (sprains, strains, torn joint ligaments, etc.) The remaining injury was a back/neck injury.
 33

34 Although the survey does not currently ask about near-miss incidents, several jurisdictions have shared information
 35 about near-miss incidents which resulted in no days-away or lost time. When the results of all three annual surveys
 36 are compiled, the top four causes of near-misses are the same as the top four causes of DART incidents.
 37

38 The following information was provided at the 2019 Interim Meeting:
 39



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The SAS will focus some of their efforts next year in developing weights and measures materials related to:

- Bending/Lifting/Twisting
- Vehicle Accidents
- Slips/Trips/Falls
- Chemical Exposure

NCWM members are encouraged to review the complete presentation on the 2018 safety survey on the NCWM safety page.

The Committee expresses appreciation to the members of the Safety Awareness Subcommittee for their willingness to volunteer for this important work.

Safety Awareness Subcommittee		
Office	Name	Affiliation
Chair	Julie Quinn	Minnesota
Public Sector Member	Jason Flint	New Jersey
Public Sector Member	Georgia Harris/Doug Olson	NIST, Office of Weights and Measures
Public Sector Member	Elizabeth Koncki	Maryland
Public Sector Member	Matt Maiten	Santa Barbara County, California
Public Sector Member	Brenda Sharkey	South Dakota
Public Sector Member	Mike Sikula	New York
Private Sector Member	Tisha Ariaga/Jeff Griffith	Marathon Petroleum, LLC
Private Sector Member	Bill Callaway	Crompco
Private Sector Member	Remy Cano	Northwest Tank and Environmental Services, Inc.
Private Sector Member	Brad Fryburger	Rinstrum, Inc.
Private Sector Member	Robert LaGasse	Mulch and Soil Council
Private Sector Member	John Lawn	Rinstrum, Inc.
Private Sector Member	Richard Shipman	Rice Lake Weighing Systems, Inc.
Private Sector Member	H. Sprague Ackley	Honeywell Safety and Productivity Solutions

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Currently the NCWM safety page houses the list of regional safety liaisons and an archive of past safety articles.

Regional Safety Liaisons:

Central Weights and Measures Association (CWMA):
Ms. Julie Quinn, Minnesota Weights and Measures Division

Northeastern Weights and Measures Association (NEWMA):
Mr. Michael Sikula, New York Bureau of Weights and Measures

Southern Weights and Measures Association (SWMA):
Ms. Elizabeth Koncki, Maryland Department of Agriculture

Western Weights and Measures Association (WWMA):
Mr. Brett Gurney, Utah Department of Agriculture and Food

Each region is responsible for providing a safety article for the NCWM newsletter according to the following schedule:

Safety Article Schedule		
Issue 3 (September 2019)	CWMA	August 15, 2019
Issue 1 (February 2020)	NEWMA	January 15, 2020
Issue 2 (May 2020)	SWMA	April 15, 2020
Issue 3 (September 2020)	WWMA	August 15, 2020

1 Thanks to the following individuals for their contributions since the 2017 annual meeting:

- 2 • *Preparing Employees for an Active Shooter Event* - Julie Quinn, MN
- 3 • *Safety is Up to Me!* - Brett Gurney, UT
- 4 • *Is it Safe to Run Gasoline Through a Large Volume Prover?* - Mike Sikula, NY
- 5 • *Check it out! The Happy-list State* - Elizabeth Koncki, MD

6 **Regional Association Comments:**

7 WWMA 2018 Annual Meeting: The WWMA Professional Development Committee heard no comments during the
 8 open hearings. The WWMA PDC continues to support the importance of safety and the work being done by NCWM.

9
 10 NEWMA 2018 Interim Meeting: Walt Remmert (PA) volunteered to take a lead for NEWMA on training topics
 11 including Safety. He stated that Julie Quinn might be utilized to assist with safety training. Pennsylvania paid for all
 12 state W&M employees to attend the 10-hour OSHA class.

13
 14 Michael Sikula (NEWMA Regional Safety Liaison) gave a detailed report on the concerns and issues related to using
 15 100-gallon provers to test gasoline meters. NY will be developing a Power Point presentation to assist in the training
 16 of inspectors in NY on the hazards of testing these meters used for gasoline. The Committee and NEWMA would
 17 like to thank Mr. Sikula for his continued contributions as the Regional Safety Liaison. The Committee would like to
 18 thank Julie Quinn and the Safety Committee for their ongoing contributions to the Safety section of the PDC. The
 19 Committee supports ongoing training and education on Safety Issues.

20
 21 SWMA 2018 Annual Meeting: The Chairman received no comments on this item.

22
 23 CWMA 2018 Interim Meeting: Julie Quinn (MN) gave an overview of the game (Luck of the Draw) which she will
 24 present to the members on Wednesday Oct 17, 2018, reviewed the safety survey results and stated that property
 25 damage will be added to the survey.

26

Item PMT-1
<p>Regional recommendation to NCWM on item status:</p> <ul style="list-style-type: none"> <input type="checkbox"/> Recommend as a Voting Item on the NCWM agenda <input checked="" type="checkbox"/> Recommend as an Information Item on the NCWM agenda <input type="checkbox"/> Recommend as an Assigned Item on the NCWM agenda <i>(To be developed by an NCWM Task Group or Subcommittee)</i> <input type="checkbox"/> Recommend as a Developing Item on the NCWM agenda <i>(To be developed by source of the proposal)</i> <input type="checkbox"/> Recommend Withdrawal of the Item from the NCWM agenda <i>(In the case of new proposals, do not forward this item to NCWM)</i> <input type="checkbox"/> No recommendation from the region to NCWM <i>(If this is a new proposal, it will not be forwarded to the national committee by this region)</i>
<p>Comments and justification for the regional recommendation to NCWM: <i>(This will appear in NCWM reports)</i></p> <p>No comments were heard. The PDC committee is recommending Brenda Sharkey to become Safety Liaison Rep for the committee to replace Julie Quinn who is retiring.</p>

27

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- 28 Mr. Mike Boehler, Nebraska | Committee Chair
 - 29 Ms. Rachelle Miller, Wisconsin | Member
 - 30 Ms. Brenda Sharkey, South Dakota | Member
 - 31 Ms. Brenda Geist, Kansas | Member
 - 32 Ms. Jean Kliethermes, Missouri | NCWM Representative
 - 33 Mr. Ryan Rogers, Hoidale Company | AMC Representative

34 **Professional Development Committee**