

## Professional Development Committee (PDC) 2019 Interim Meeting Report

Mr. Gene Robertson, Committee Chair  
Mississippi

### INTRODUCTION

The PDC will address the following 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 first four digits of an item's reference key are assigned from the Subject Series List. The acronyms for organizations and technical terms used throughout the agenda are identified in Table B. In some cases, background information will be provided for an item. The fact that an item appears on the agenda does not mean it will be presented to National Conference on Weights and Measures (NCWM) for a vote. The Committee will review its agenda and may withdraw some items, present some items for information meant for additional study, issue interpretations, or make specific recommendations for change to the publications identified which will be presented for a vote at the Annual Meeting. The Committee may also take up routine or miscellaneous items brought to its attention after the preparation of this document. The Committee may decide to accept items for discussion that are not listed in this document, providing they meet the criteria for exceptions as presented in Section H of the introductions to *NIST Handbook 44* and *NIST Handbook 130*. The Committee has not determined whether the items presented will be Voting or Informational in nature; these determinations will result from their deliberations at the Interim Meeting.

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*.

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
<b>EDU – EDUCATION</b> .....		<b>423</b>
EDU-1 I	Professional Certification Program .....	423
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**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

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**Details of All Items**  
*(In order by Reference Key)*

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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  
5    Scales, Large Capacity Scales, and Basic Package Checking. The competency exams include Basic Weighing  
6    Devices and Basic Liquid-Measuring Devices. Professional certifications must be renewed every five years. The  
7    NCWM is 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  
9    exam. He announced that work was progressing with NIST OWM to implement TP-27, a product of the API, ASTM  
10   and Gas Processors Association. TP-27 provides an electronic algorithm for computing temperature corrections to  
11   liquid volume that supersedes ASTM Table 24. The work with OWM also corrects minor errors in another table  
12   (Table 2) used to calculate uncompensated (gross) errors. OWM used the new tables in training provided in June in  
13   Ohio, and they plan to make a broad distribution of the new tables shortly. States will not have to make procedural  
14   changes to calculations or forms; just substitute the new tables for the old ones, i.e. new Table 24E for Table 24 and  
15   new Table 2 for old Table 2. The NCWM exam will use the new OWM tables and plans to publish them with the  
16   exam 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  
18   used in pharmacy, jewelers, and cannabis applications. After that the present priority list has price verification as the  
19   next exam in the pipeline. The Committee encourages dialog on the priorities for future development of exams.  
20   Please let 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  
23   create legal terms of agreement for proctors which has been sent to states so they can begin selecting proctors. The  
24   Board decided to send a notice to state directors allowing 30 days for states to get their proctors signed up. After the  
25   30 days, all exams require a proctor. With proctoring in place, the NCWM can begin hosting the basic competency  
26   exams. Under the proctoring agreement the proctor's organization will provide the computer access and ensure  
27   details in the proctoring agreement are met. Only materials authorized in the exam announcement will be allowed  
28   and these will be 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  
30   candidate will only get access to the exam after the proctor logs in with their credentials. The candidate may still log  
31   in without a proctor to view their exam history and to reprint certificates. Candidates should take care to retain their  
32   credentials for this purpose.

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

12 **Status of Current Tests**

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

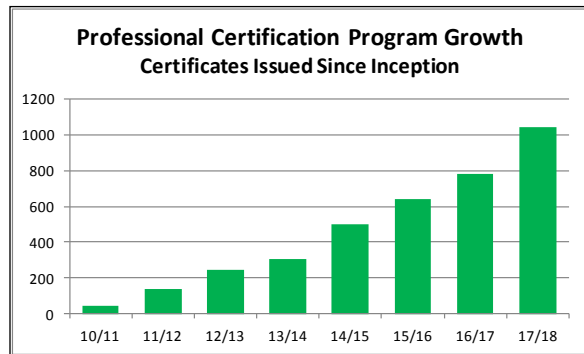
22 Number of Certificates NCWM has Issued as of the end of Fiscal Year 2017/18 (September 30, 2018)

	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

23

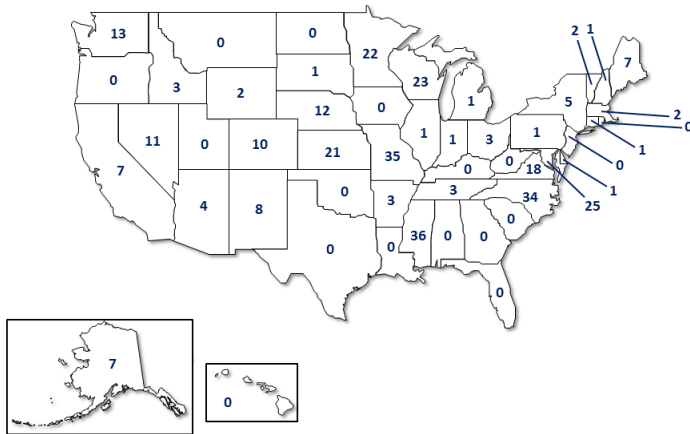
Certification (posted)	Certificates
RMFD (5/2010)	364
Small Scales (8/2012)	249
Package Checking (8/2012)	167
Medium-Capacity Scales (4/2015)	112
Large-Capacity Scales (4/2015)	74
Vehicle-Tank Meters (4/2015)	76

24



25 The following map includes the states with individuals holding an active certificate in one or more disciplines.  
 26 Please note that the eleven active certificates issued to private sector individuals are included in these figures, e.g.  
 27 the three certificates in Arkansas are private sector individuals. This data only includes certificates which have not  
 28 expired as 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  
 9 with 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  
 13 Coordinator worked with NCWM staff to find the errors and correct them. Several entries on the test site were not  
 14 actual exams taken by candidates but rather by staff to evaluate the exam deployment. These have been removed.  
 15 There were a small number of data entry errors or missing entries in the manual NCWM database that were also  
 16 corrected. The two databases are now synchronized up to the end of fiscal year 2017/18. The data reported in the  
 17 annual report and in the charts above reflect the corrected figures. This synchronization will become a part of the  
 18 annual program maintenance 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  
 6 move forward with the precision scale certification exam. With more states adopting the sale of cannabis there will  
 7 be a growing need for proficiency in this area.

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

10 CWMA 2018 Interim Meeting: No comments received.

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

<b>NIST OWM Training Conducted in 2018</b>			
<b>Area/Course Name</b>	<b>Start Date</b>	<b>Location</b>	<b>Number of Students</b>
<b>Laboratory Metrology</b>			
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
<b>Regional Measurement Assurance Programs</b>			
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
<b>Info Hours &amp; Other</b>			
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
<b>Webinars</b>			
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
<b>Packaging &amp; Price Verification</b>			
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
<b>Legal Metrology Devices</b>			
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

<b>NIST OWM Training Scheduled for 2019 and 2020</b>		
<b>Area/Course Name</b>	<b>Dates</b>	<b>Location</b>
<b>Laboratory Metrology</b>		
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
<b>Regional Measurement Assurance Programs</b>		
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
<b>Webinars</b>		
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
<b>Packaging &amp; Price Verification</b>		
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
<b>Webinars</b>		
NIST Handbook 130 – Price Verification	06/18/19	Webinar
NIST HB 130 – Overview Packaging\Labeling Reg	06/19/19	Webinar
<b>Legal Metrology Devices</b>		
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

1  
2 A complete list of upcoming OWM training events is available on the calendar of events on the OWM website at:

3  
4 <https://www.nist.gov/pml/weights-and-measures/about-owm/calendar-events>

5  
6 At the 2018 Annual Meeting, Ms. Butcher noted the NIST Office of Weights and Measures (OWM) has been asked  
7 by multiple Regional Weights and Measures Associations (Regionals) to offer training seminars in conjunction with  
8 their annual meetings. OWM welcomes and appreciates the opportunity to offer training in this venue and reach  
9 multiple jurisdictions at once. To assist in planning for training in 2019 and in developing materials for future  
10 courses, OWM has asked for feedback from each Regional. Drawing from its full list of training topics, OWM  
11 identified topics on which OWM is prepared to offer training at the 2019 Regional meetings (and would lend  
12 themselves to the time constraints of a Regional) as shown below and distributed this list to each Region's main  
13 point of contact at the beginning of June.



<b>Packaging and Labeling and Price Verification:</b>	
	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)
<b>Devices:</b>	
	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)

1  
2 OWM hopes to identify one or two training topics that would be of interest to multiple Regionals to help maximize  
3 the use of its resources in preparing for the training. OWM is also seeking feedback from the Regionals and others  
4 on ideas for *future* topics that may be needed to assist jurisdictions with addressing changes in technology and  
5 marketplace practices.

6  
7 OWM discussed these training options with the regions during their scheduled meetings Wednesday morning at the  
8 Annual Meeting. Mrs. Butcher also noted OWM would like to use a similar approach of obtaining regional input  
9 each year to help OWM better meet any requests for training by OWM that the regions might have.

10  
11 At the Interim Meeting 2019, it was requested that the Committee consider reviewing and potentially  
12 updating/reintroducing the old NIST OWM training modules. The Committee is not sure whether these modules are  
13 still available in digital form but will investigate.

14  
15 Ross Andersen (NY, retired) indicated that NIST has extensive training materials that we could leverage; requesting  
16 these materials from NIST may be beneficial.

17  
18 The state of Kansas communicated some upcoming training they had planned; this training will cover both VTM  
19 and load rack training and will be held for 5 days starting June 10.

20  
21 We were reminded of the NIST metrology training in Florida:

- 22 • Combined Regional Measurement Assurance Program (C-RMAP) Tutorial 1-4
- 23     o May 31 - June 2, 2019
- 24 • Combined Regional Measurement Assurance Program (C-RMAP)
- 25     o June 2 – 6, 2019

26  
27 Three states recommended that NCWM and NIST OWM consider joint development of training videos, and  
28 investigate funding from additional sources (grants, etc.).

29  
30 **Regional Association Comments:**  
31 WWMA 2018 Annual Meeting: The WWMA Professional Development Committee heard the following comments  
32 during open hearings:

- 33
- 34 • John Young (Yolo County, CA) would like to have the following training offered by NIST at the WWMA  
35 annual meeting: Gravimetric testing for mass flow meters and liquid measuring devices such as CNG,  
36 LNG, Hydrogen, and bulk oil; electric vehicle charging stations; and training on how to select the proper  
37 master meter for different products.
- 38 • Tina Butcher (NIST OWM) would like the various regions to begin discussions as early as possible  
39 regarding training requests for the 2020 and beyond regional meetings. There are a limited number of NIST  
40 trainings courses that will fit into the schedule for a regional meeting, the NIST OWM would like each

1 region to prioritize the type of trainings from the list currently offered by NIST. Other considerations would  
2 be equipment requirements available to conduct the training.

- 3 • Kipp Blauer (NV) would like precision scale training focused on scales used to weigh tobacco-like  
4 products. Training should be targeted on the practical use of the scales, rather than NTEP requirements.
- 5 • Tina Butcher stated that NIST, being a federal government agency, could not conduct training specifically  
6 related to the cannabis industry.
- 7 • Kevin Merritt (ID) would like training on gravimetric testing of bulk oil meters.
- 8 • Marco Mares (San Diego County, CA) would also like to see a course on gravimetric testing.
- 9 • Cathy Fisher (Santa Barbara County, CA) would like training on precision scales and package labeling.  
10 Cathy also mentioned that the 2018 Farm Bill now allows the growing of industrial hemp in all states with  
11 regulatory programs.
- 12 • Jerry Johnson (WY) would like training on forklift scales.
- 13 • Tina Butcher suggested the WWMA PDC committee poll the western region states to select the top three  
14 topics for training offered by NIST at the regionals.
- 15 • Stan Toy (Santa Clara County, CA) wanted clarification as to whether gravimetric training currently  
16 offered by NIST would be applicable to the bulk oil and other device training requested by other  
17 jurisdictions. Tina responded that this training was focused on packaged products.
- 18 • Brett Gurney (UT) would like training on audit trails

19  
20 NEWMA 2018 Interim Meeting: Concerns were given regarding the ability to send multiple employees to out of  
21 state training due to budgetary issues. States can have different training qualifications for inspectors and sealers.  
22 Walt Remmert (PA) voiced support and a desire for NIST to produce video training that can be easily accessed by  
23 jurisdictions. Videos on inspections and EPO'S would be valuable for jurisdictions to use. Related comments were  
24 made that this form of recorded on line education could reach many more inspectors than hands on training.  
25 Recommendations for Safety to be included in future training was supported. The committee encourages NIST to  
26 explore the possibility of producing video trainings that can be made available to jurisdictions. The Committee  
27 would like to thank our NIST partners for their continued assistance with training and technical work.

28  
29 SWMA 2018 Annual Meeting: The chairman informed the conference that NIST will use the top 4 or 5 training  
30 topics from the list submitted by each of the regions for future training.

31  
32 CWMA 2018 Interim Meeting: A regulator requested that all NIST online training modules to be online and easily  
33 accessible.

### 34 **EDU-3 I Instructor Improvement**

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

41  
42 Several years ago, OWM renewed its efforts to develop trainers by providing a grant to the NCWM which is  
43 intended to pay travel costs of individuals to travel within their regions to conduct training and to participate in  
44 NIST training for trainers. This partnership has enabled NIST to bring in candidates for NIST-sponsored training  
45 such as "train the trainer" classes and to participate in NIST technical training schools. Through an application  
46 process, in collaboration with weights and measures directors and nominated training candidates, NIST has  
47 identified a group of people who are now working with NIST to develop the knowledge, skills, and abilities to  
48 work with NIST staff in presenting technical training schools. A number of candidates in the NIST Trainer  
49 Program have already served as co-instructors for NIST technical training schools and have done an excellent  
50 job. OWM sincerely appreciates the willingness of those trainers and their directors who have supported their  
51 participation to devote time to making these seminars successful.

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

7  
8 A list of all people who have attended a NIST “Train the Trainer” class or associated event has been posted on  
9 the NCWM website. Many people on this list have attended NIST “train the trainer” events and workshops but  
10 have not served as co-instructors for NIST classes and, in some cases, have not attended NIST technical training  
11 schools in the areas in which they are interested in serving as trainers. Conversely, there are people on this list  
12 who have attended the workshops and NIST technical training seminars and have also served as co-instructors in  
13 NIST training seminars. Because of the variations in experience levels of individuals on this list and because  
14 OWM has not authorized anyone (external to NIST) to independently present “NIST” classes and is still refining  
15 the program infrastructure, confusion has arisen in the weights and measures community regarding classes that  
16 these individuals may present on their own. NIST and NCWM are considering how to best depict these listings  
17 to reflect the status of the trainers listed such that confusion can be avoided in the future

18  
19 OWM appreciates the strong support of the NCWM, the PDC, the volunteer trainers, and their administrators in  
20 continuing to develop the NIST Trainer Program. OWM will continue to provide the Committee with updates on  
21 its progress as well as continue to collaborate with and support the Committee in its work.

22  
23 The Committee continues to hear comments from States expressing appreciation for the NCWM Professional  
24 Certification Program and the NIST Training Program. The Committee also heard favorable comments about the  
25 training materials and tools provided by NIST, including a video on testing retail motor-fuel dispensers  
26 (RMFDs). As noted in Item 410-2, the NIST video is divided into segments focusing on specific parts of the  
27 RMFD test procedure that can be used to supplement and enhance instructor-led training. The video can be  
28 accessed through OWM’s home page or by going directly to the following link:  
29 <http://www.nist.gov/pml/wmd/lmdg/training-materials.cfm>.

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

45  
46 These initiatives require competent and qualified trainers and a centralized management plan within the  
47 jurisdiction. The Committee is continuing to work, in partnership with NIST OWM, to identify the basic  
48 competencies of those trainers and training managers so that jurisdictions can find the right people to manage and  
49 deliver training internally. It’s not enough just to be technically competent in a subject area to be a good trainer  
50 or to effectively manage a training program. It takes other tools, such as:

- 51 • ability to assess employee competence and training needs,
- 52 • ability to create learning materials from technical material,
- 53 • ability to use adult learning techniques adapted to individual and group needs,
- 54 • ability to plan training activities and find appropriate training venues,
- 55

- 1 • ability to find creative ways to deliver training with tight budgets, and
- 2 • ability to adapt the overall training program to best serve jurisdiction goals

3  
4 In 2015 OWM developed a NIST Instructor Training Program Instructor Competency Assessment and Feedback  
5 Instrument that can be used as a self-assessment tool by instructors and assist them in identifying and setting  
6 goals to strengthen and develop their skills as trainers. Included in this assessment tool is a broad list of  
7 competencies for trainers based on a model developed by the U.S. Department of Education (see [http://www.pnet2000.org/CM/content\\_files/70.pdf](http://www.pnet2000.org/CM/content_files/70.pdf) for details). For the purposes of serving as a NIST OWM trainer, only a  
8 subset of these competencies may be necessary, although some trainers participating in the NIST Trainer Program  
9 may be required to master more of them to meet broader training responsibilities within their own agencies. See  
10 past Committee reports for additional background.

11  
12  
13 As previously reported, NIST OWM is authorized by IACET to issue “Continuing Education Units” for certain  
14 training seminars and, as part of this authorization, there are certain provisions that an instructor must follow to  
15 meet these requirements. NIST Certificates and the accompanying CEUs can only be issued if these criteria are  
16 met; this includes ensuring that the material is presented consistent with the learning objectives and interpretations  
17 specified by NIST OWM and in the same time frame. OWM staff trainers have completed IACET training courses  
18 and are familiar with the procedures that OWM has implemented to ensure compliance with IACET-related  
19 requirements for NIST training courses. External trainers in the NIST Trainer Program must also understand these  
20 provisions. OWM has presented several short webinars to help its external trainers obtain the necessary training  
21 and will continue to seek opportunities to provide this training to those who have not yet completed it.

22  
23 At the 2016 Annual Meeting, Ms. Butcher reported that NIST is making an additional \$100,000 grant to NCWM to  
24 support travel and training events for the NIST Trainer program. OWM continues to work on formalizing the NIST  
25 Trainer Program. At the 2017 Annual Meeting, Ms. Butcher updated the Committee on progress on “Instructor  
26 Improvement” in the NIST Trainer Program. She noted that OWM is continuing to work on the infrastructure of  
27 the program, including documenting:

- 28 • Procedures for Selection, Evaluation, and Feedback to Instructors
- 29 • Instrument - Instructor Competency Assessment and Feedback – Overall
  - 30 ○ Based on US Dept. of Education model for overall development
- 31 • Instrument - Instructor Competency Assessment - specific courses
- 32 • Criteria for Developing Participants in NIST Instructor Training Program and Use of the NIST-NCWM  
33 Training Grant
- 34 • Instructor Agreement

35  
36  
37 She noted that OWM information shared this information with NCWM Board of Directors at their meeting May  
38 2017 as a follow-up to discussions and a request at the Board’s January 2017 Meeting. She noted that OWM is  
39 beginning to implement these tools with its external trainers and OWM has made continual adjustments to the  
40 assessment documents based on experience. For example, the instrument which is used to provide an overall  
41 assessment of a trainer’s professional competencies can be used to help a trainer identify personal goals for  
42 improving their competencies as a trainer, including both those that NIST would require of its trainers and those that  
43 might be required of them in their own jurisdiction. However, the instrument proved overly complex for an  
44 individual learning event. Consequently, Georgia Harris (OWM) developed a scaled down version of the instrument  
45 that was tailored more toward individual learning events, but that still linked back to the overall competencies. This  
46 instrument has been used in at least two classes and a revised version will be used in courses coming up in fall 2017.  
47 Ms. Butcher reported that 10 of OWM’s 44 training sessions in 2016 included non-NIST instructors assisting in the  
48 NIST OWM classes. Travel for external trainers serving as co-instructors in these classes is funded using travel  
49 from a grant provided by NIST to NCWM. She expressed appreciation to NCWM for its continued assistance in  
50 administering the grant and helping make the process of getting the trainers to these courses as smooth as possible.

51  
52 Ms. Butcher also reported that several instructor training webinars had been offered to external trainers, including  
53 webinars on Blooms Taxonomy; learning objectives; and the ADDIE model. She noted that one of NIST’s external  
54 trainers audited a “Train-the-Trainer” course offered by the American Management Association and OWM is  
55 considering if this might be a course that could be used by prospective NIST instructors in their own personal

1 development as trainers. Ms. Butcher noted that OWM is continuing to involve external trainers in its training  
 2 efforts and has been increasing their responsibilities in these seminars. She emphasized the significant impact that  
 3 the external trainers have had on the success of the NIST courses and expressed appreciation for the trainers who  
 4 give of their time and expertise and the directors who allow the trainers time away to assist with these courses.

5  
 6 Since NIST was not in attendance at the Interim Meeting 2019, no updates were available. No comments were heard  
 7 on this item.

#### 8 9 **Regional Association Comments:**

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

12  
 13 NEWMA 2018 Interim Meeting: No comments received. The Committee both supports and would like to thank  
 14 our NIST partners for their continued work on improving the skills of trainers.

15  
 16 SWMA 2018 Annual Meeting: No comments received.

17  
 18 CWMA 2018 Interim Meeting: No comments received.

#### 19 **EDU-4 I Recommended Topics for Conference Training**

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

24  
 25 The following is a list of technical presentations made at the NCWM since 2009. Presentations given since 2010  
 26 are available at [www.ncwm.net/meetings/annual/archive](http://www.ncwm.net/meetings/annual/archive).

- 27
- 28 • Planning and Coordinating a National Market Place Survey (Ms. Rachele Miller, WI 2017);
- 29 • The Life Cycle of Petroleum from Well to Retail (Mr. Prentiss Searles, API 2017);
- 30 • The United States Mint at Denver – Gold, Coins and Embezzlement (Mr. Thomas Fesing, 2016)
- 31 • Understanding Transportation Network Systems (Ms. Andrea Ambrose Lobato, Lyft and Mr. Bob O’
- 32 Leary, Uber 2016)
- 33 • Regulatory Consideration for Legalized Marijuana (Ms. Julie Quinn, MN and Mr. Nick Brechun, CO 2016)
- 34 • Motor Oil Quality Violations (Mr. Tom Glenn, Petroleum Quality Institute of America, 2014);
- 35 • Making Sense of Electronic Receipts (Mr. Justin Hotard, Vice President and General Manager, NCR
- 36 Corporation, 2014);
- 37 • LNG & CNG Motor Fuel – A Technical Briefing from Industry (Mr. Doug Horne, President CVEF, Mr.
- 38 Zack Wester, Blu, Mr. Jeff Clarke, NGVA, 2014);
- 39 • Taximeter Technology Advancements (Mr. Matt Daus, International Association of Transportation
- 40 Regulators, 2013);
- 41 • Advanced Vehicles and Fuel Quality (Mr. John M Cabaniss, Jr., Association of Global Automakers, 2013);
- 42 • Economic Justification and Demonstrating Value of Weights and Measures (Mr. Tim Chesser, Arkansas
- 43 Bureau of Standards, 2012);
- 44 • Conducting Effective Marketplace Surveys and Investigations (Ms. Judy Cardin, Wisconsin Weights and
- 45 Measures, 2012);
- 46 • Public Relations and Customer Service as Regulators (Mr. Doug Deiman, Alaska Division of Measurement
- 47 Standards/ CVE, 2012);
- 48 • An Overview of Unit Pricing in the United States (Mr. David Sefcik, NIST OWM, 2011);
- 49 • Grocery Unit Pricing in Australia (Mr. Ian Jarratt, Queensland Consumers Association, 2011);
- 50 • Grocery Unit Pricing in Canada (Mr. Ian Jarratt, Queensland Consumers Association, 2011);
- 51 • The U.S. Hydrogen Measuring System: The Turning Point? (Ms. Kristin Macey, California Division of
- 52 Measurement Standards, 2011);

- 1 • Corrosion in Ultra Low Sulfur Diesel Underground Storage Systems (Mr. Prentiss Searles and Ms. Lorri
- 2 Gainawi, American Petroleum Institute, 2010);
- 3 • Risk-Based Inspection Schemes (Mr. Henry Oppermann, Weights and Measures Consulting, LLC, 2010);
- 4 • Diesel Exhaust Fluid (DEF) (Mr. Gordon Johnson, Gilbarco, Inc., and Mr. Randy Moses, Wayne, 2009);
- 5 • Fuel Volatility and Ethanol Blending (Mr. Jim McGetrick, BP Products, 2009);
- 6 • Investigative Techniques (Mr. Michael Cleary, Retired, 2009)

7  
8 During open hearings at the 2016 Interim Meeting, the Committee heard a suggestion from Ms. Kristin Macey  
9 (CA) for a training session on transportation network systems. Mr. Doug Musick (KS) commented that this type  
10 of technology is showing up in applications other than just passenger transportation and suggested that training in  
11 GPS-based measuring systems in general would be beneficial. He noted that his jurisdiction is encountering a  
12 large number of GPS-based measuring systems being used in assessing charges for the sale and application of  
13 crop fertilizers and other treatments and he noted that the monetary impact is significant.

14  
15 The Committee also heard comments from Mr. Jim Pettinato (FMC), Chairman of the NTEP Software Sector,  
16 who noted that training on issues related to inspection of software-based systems may be beneficial to weights  
17 and measures jurisdictions. He noted that, with the current progress of proposals through the NCWM process, the  
18 Sector is wrapping up its initial work and suggested that the Sector and its members might be able to assist in  
19 training on legal metrology issues relative to software-based weighing and measuring systems. Ms. Julie Quinn  
20 (MN) commented that this assistance might be particularly helpful in assisting weights and measures jurisdictions  
21 in understanding and educating inspectors and service personnel on audit trails used in these devices, and she  
22 noted that audit trail training is the most frequently requested training topic in her jurisdiction.

23  
24 The Committee appreciates the input and ideas that it has received regarding suggested training topics. Based on  
25 the comments received during its open hearings, comments from the fall 2015 regional association meetings, past  
26 suggestions, and discussions during its Interim Meeting work sessions, the Committee proposes that the BOD  
27 consider offering technical presentations on the following topics:

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

35  
36  
37 The Committee also discussed the audience that is typically present at NCWM Annual and Interim Meetings,  
38 noting that inspectors and service personnel are not always able to participate in these meetings. The Committee  
39 believes it would be beneficial not only to offer training on key issues such as those listed above at the NCWM  
40 meetings, but to have the training made available at regional and state weights and measures association meetings  
41 where more inspectors and service personnel would be likely to attend. Some aspects of the training might need  
42 to be tailored more toward field inspection than weights and measures administration, but much of the content  
43 should be the same. The Committee would like to collaborate with regional weights and measures associations to  
44 suggest that similar training be provided at the regional level.

45  
46 At the 2016 NCWM Annual Meeting, the Committee suggested that technical training on safety programs be  
47 included at Regional and National Meetings, including an update provided by Julie Quinn at the 2016 Annual  
48 Meeting. The Committee received no additional suggestions or comments regarding proposed training topics.

49  
50 At the Interim Meeting 2019 the following suggestions from the floor for additional topics were received:

- 51 • Investigative reporting
- 52 • D.E.F. Testing requirements, special considerations (handling, safety, equipment)
- 53 • Differentiation between weight classifier and normal rounding scales
- 54 • Organizing/publishing existing training materials

1 **Regional Association Comments:**

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

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

15  
16 NEWMA 2018 Interim Meeting: No specific recommendations for future training topics for the Annual Meetings  
17 were made. There were many positive comments regarding the field trip that took place at the Tulsa OK annual  
18 meeting and an openness to consider doing something similar going forward. The Committee supports alternative  
19 technical sessions such as field trips where appropriate.

20  
21 SWMA 2018 Annual Meeting: Don Onwiler (NCWM Executive Director) commented that we may want to receive  
22 from the group not only topics for conference training, but industry type tours like the one of the Magellan Terminal  
23 at the NCWM annual conference in Tulsa, OK. The Chairman received no other comments on this item.

24  
25 CWMA 2018 Interim Meeting: Regulators requested that technical training be given on Livestock Scales and  
26 Monorail Scales. They would also like to see 1-2 hour training course be given for (e) verification divisions and (d)  
27 divisions. Training was requested for digital density meters. There will be technical training on Retail Motor Fuel  
28 Meters given in Canton, OH on May 6-9<sup>th</sup>, 2019 during the CWMA Annual conference running concurrently with  
29 the conference. Chris Guay from Proctor & Gamble will also be providing some training on Packaging/Labeling at  
30 the CWMA conference on May 6-9<sup>th</sup>, 2019 in Canton, OH.

31 **PMT – PROGRAM MANAGEMENT**

32 **PMT-1 I Safety Awareness**

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

37  
38 In July 2017, the Board of Directors created the Safety Task Group to create a safety tool kit to help weights and  
39 measures organizations create or improve their own safety programs. The toolkit is complete and is posted on the  
40 NCWM website at: <http://www.ncwm.net/resource/safety>

41  
42 At the 2018 annual meeting, the NCWM BOD decided to make the task group a permanent sub-committee  
43 associated with the PDC. The newly formed Safety Awareness Subcommittee (SAS) will assume responsibility for:

- 44
- 45 • Maintaining and updating the safety toolkit
- 46 • Writing and deploying the NCWM annual safety survey, as well as reporting on the results each year
- 47 • Finding resources and/or developing weights-and-measures-focused materials relating to the top hazards  
48 identified through the safety survey or through developing the toolkit
- 49 • Building a safety culture and developing safety leadership within the NCWM through participation on SAS

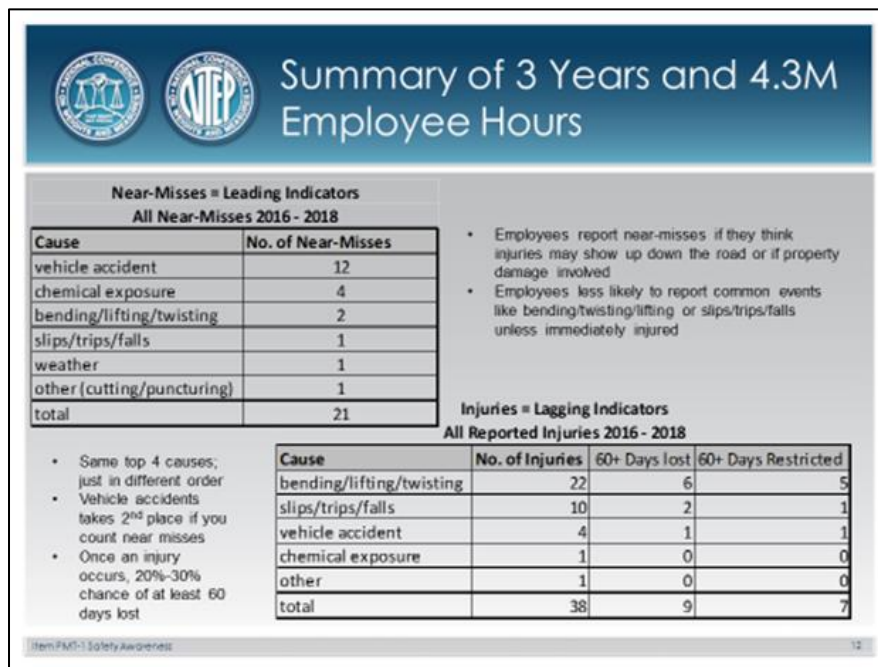
The SAS is currently working to improve the annual safety survey by:

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

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

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

The following information was provided at the 2019 Interim Meeting:



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  
 9 NCWM.

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

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

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

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

27  
 28

- 
- 29 Mr. Gene Robertson, Mississippi | Committee Chair
  - 30 Mr. Marc Paquette, Vermont | Member
  - 31 Mr. Marco Mares, San Diego County, California | Member
  - 32 Ms. Jean Kliethermes, Missouri | Member
  - 33 Mr. Scott Ferguson, Michigan | Member
  - 34 Mr. James Pettinato, FMC Technologies Measurement Solutions, Inc. | AMC Representative
  - 35 Ms. Julie Quinn, Minnesota | Safety Liaison
  - 36 Ms. Tina Butcher | NIST Liaison
  - 37 Mr. Ross Andersen | Certification Coordinator
  - 38 Mr. Jerry Buendel | Certification Coordinator

39 **Professional Development Committee**