

**Western Weights and Measures Association
52nd Annual Technical Conference
Professional Development Committee (PDC)
Las Cruces, New Mexico**

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Reference
Key Number

400 INTRODUCTION

The Professional Development Committee (PDC) will address the following items at its 2009 meeting during the 52nd Annual WWMA Conference. This is a list of the Carry-Over Items from the report of the Professional Development Committee from the 94th Annual Meeting of the National Conference on Weights and Measures (NCWM). It is based on the Final Report offered in the NCWM Publication 16, "Committee Reports", testimony at public hearings, comments received from the regional weights and measures associations and other parties, the addendum sheets issued at the Annual Meeting, and the actions taken by the membership at the voting session of the Annual Meeting.

The first digits of the reference Key Numbers of the items are assigned from the subject series listed below. The fact that an item may appear on the agenda does not mean it will be presented to the WWMA for a vote. The Committee may withdraw some of the items, present some items for information and further study, issue interpretations or make specific recommendations for changes to publication listed below. The recommendations presented in this agenda are statements of proposal and not necessarily recommendations of the Committee.

Table A identifies the agenda items in the Report by Reference Key Number, Item Title, and Page Number. Item numbers are those assigned in the Interim Meeting agenda. A voting item is indicated with a "V" after the item number. An item marked with an "I" after the reference key number is an information item. An item marked with a "D" after the reference key number is a developing item. The developing designation indicates an item has merit; however, the item was returned to the submitter for further development before any action can be taken at the national level. Table B lists the appendices to the report.

**Table A
Index to Reference Key Items**

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**Table C
Voting Results**

The Report contains non voting items.

<i>Reference Key Number</i>	<i>House of State Representatives</i>		<i>House of Delegates</i>		<i>Results</i>
	<i>Yeas</i>	<i>Nays</i>	<i>Yeas</i>	<i>Nays</i>	

**Details of All Items
(In Order by Reference Key Number)**

401 EDUCATION

401-1 I National Certification Program (NCP)

Source: Carryover Item 401-1 (This item originated from the Committee and first appeared on its agenda in 2003.)

Background: For complete background information, see the PDC page of the NCWM website, www.ncwm.net/members.

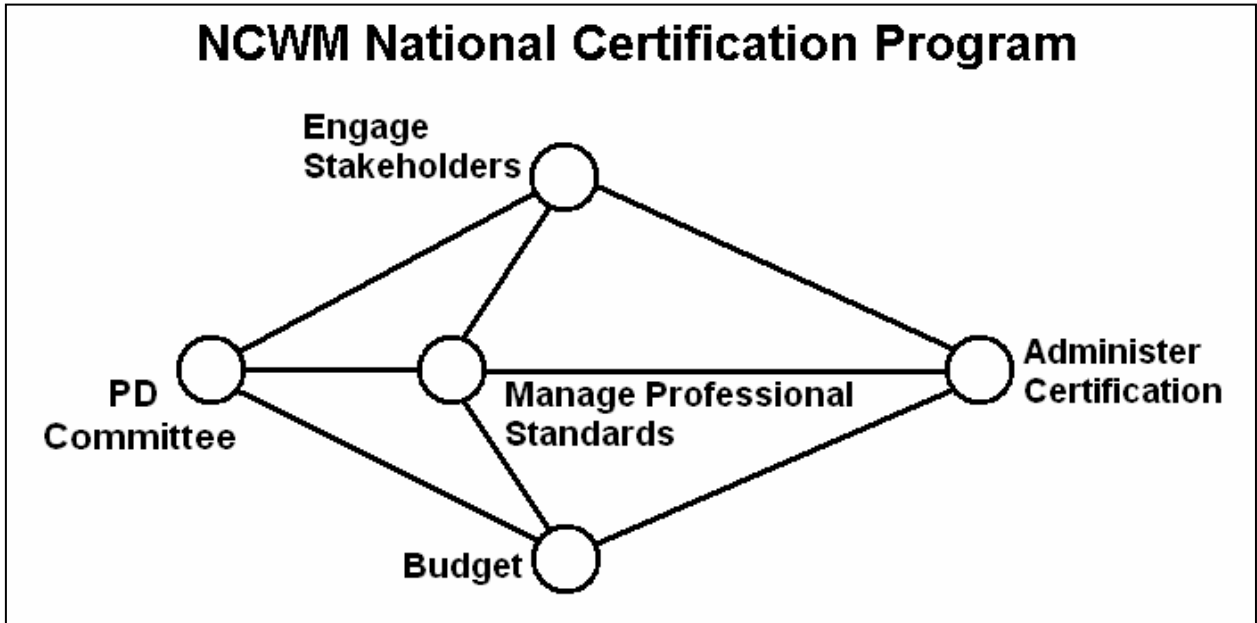
Discussion: The PDC encourages each regional association to dedicate a portion of their Annual Meeting to the National Certification Program (NCP).

During the 2008 Interim Meeting, the Committee discussed the Western Weights and Measures Association’s (WWMA) suggestion to establish an action plan and timeline. The Committee has developed an NCP, Critical Component Analysis, and an action plan of the components of the NCP. The Committee presents a draft of this document below.

**National Conference on Weights and Measures
National Certification Program
Critical Component Analysis
DRAFT, February 21, 2008**

The Committee has begun a comprehensive effort to identify critical resources and tasks necessary for the project, and the logical sequence in which those tasks must be performed, including the possible use of parallel activities.

Critical path analysis techniques were developed to manage complex projects just like the National Certification Program. The Committee is planning to use those techniques to the extent possible to plan our future activities as we work toward a certification program.

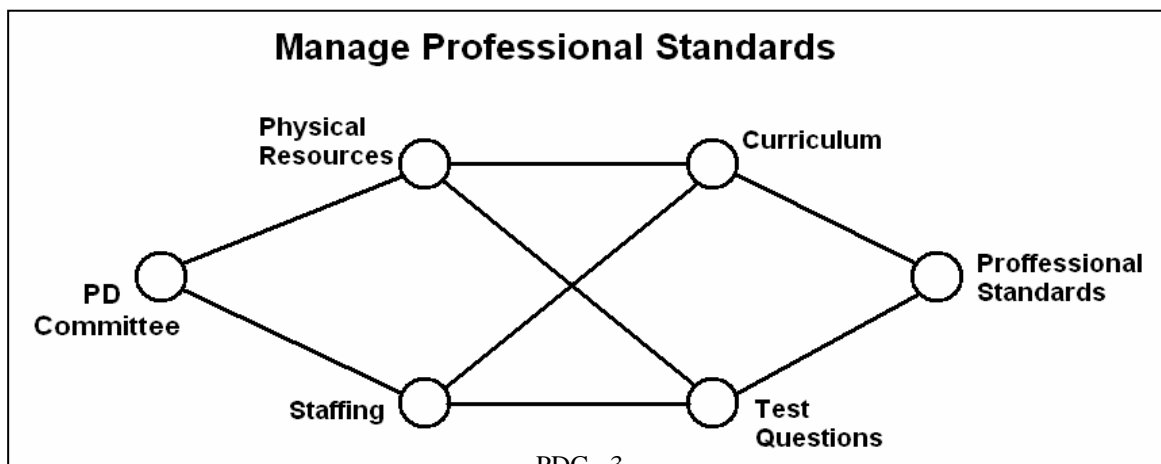


The Committee sees its task as one of managing four critical elements that come together as a certification program (as depicted above). Each bubble in the figure represents a milestone that must be reached in order to complete the objective. Those four main elements are:

Budget – involves tasks to secure necessary funding from the Board and other sources to undertake and complete all the other tasks.

Engage Stakeholders – involves tasks necessary to identify stakeholders and the resources they can bring to the project, encourage them to participate at all levels, and particularly to incorporate the professional standards in their training programs and to eventually take part in the certification program. The stakeholders will conduct the training; not the NCWM. The NCWM will only be coordinating the professional standards and administering the certifications.

Manage Professional Standards – involves tasks necessary to create and manage a set of standards for the profession. The Committee has identified the creation of professional standards (i.e., the Curriculum) as the first task in the process. The completion of the curriculum plan, the curriculum template, the guide to preparing curriculum segments, and the guide to preparing test questions are some of those important steps toward that goal. The work groups are now finalizing the first seven curriculum segments and corresponding test questions. This is a great start and there still is a significant amount of additional work necessary in this area.



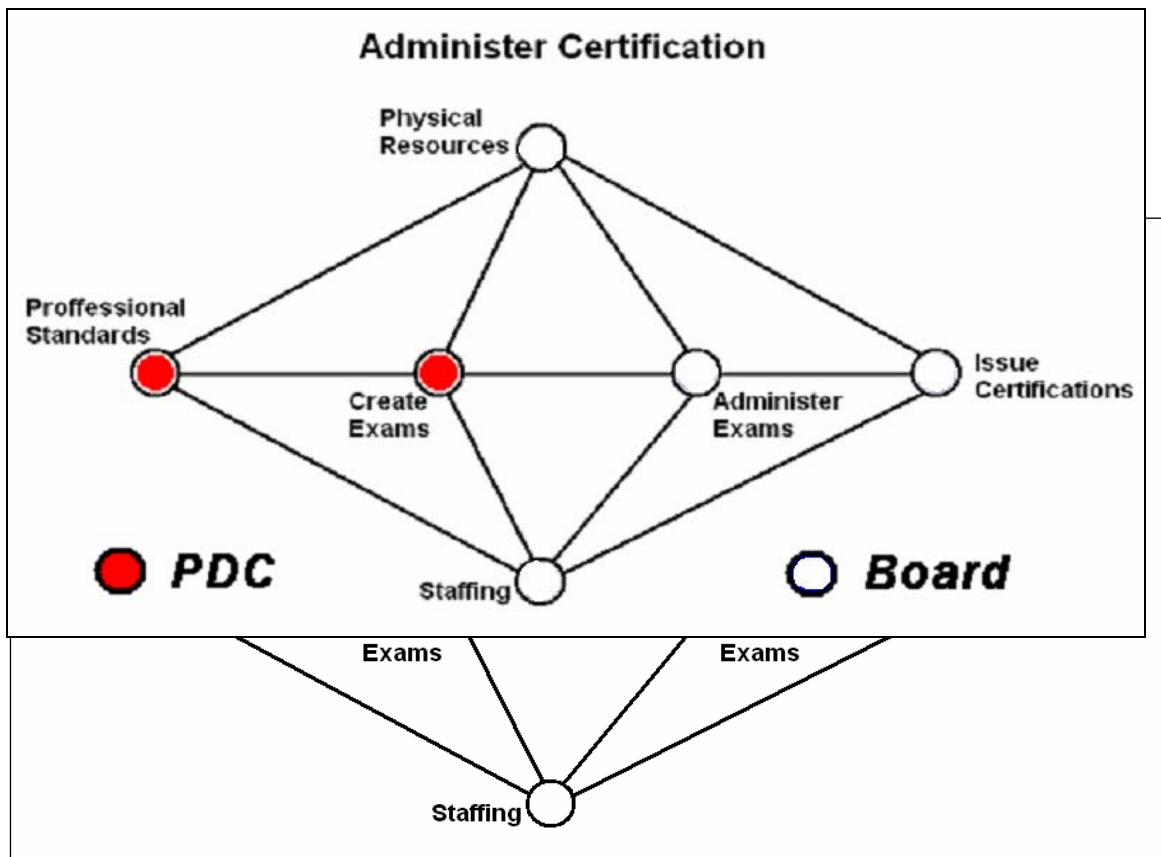
Administer Certification – involves tasks necessary to create certification exams, administer those exams, and issue certifications to those who qualify. The Committee will manage staffing, both paid and volunteer, and physical resources to secure the exams and record and issue the certificates.

As the necessary curriculum segments are completed and test questions prepared, we may begin to embark on some of the steps toward certification. Over the coming months, the Committee will continue to elaborate on the details in this project and keep refining it as we move forward.

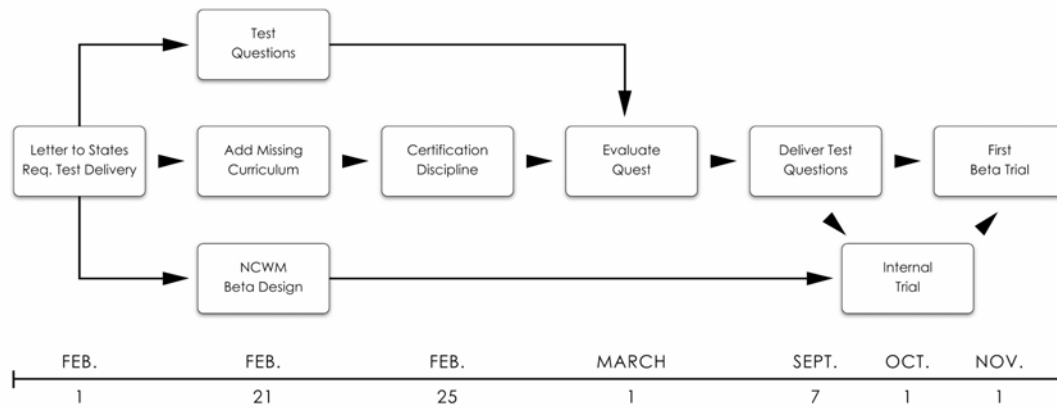
The Central Weights and Measures Association (CWMA) PDC Committee at their 2008 fall meeting proposed changing the name of the program to the National Certification Program. They further made recommendations regarding the creation of a standard like HB 130 or HB 44 that might be the mechanism to document the work on the curriculum and the certification program. (Also, see Item 402-2 for more on PDC publications.)

The PDC had learned that the Associate Membership Committee might be interested in funding the work on the curriculum and the certification package. The Committee will consider suitable projects that might make good use of that funding.

At the 2009 NCWM Interim Meeting, the PDC developed an action plan based upon the critical path analysis already completed. In this plan, responsibilities will be divided between the NCWM Board of Directors and the PDC. The PDC will develop and maintain the curricula and test questions. The Board will provide physical resources and staffing to compile the exams, issue certificates, and maintain records.



A goal was set to have all the elements in place to begin beta-testing a certification examination in one competency area by November 2009, and in three more competency areas by 2010. The initial plans are to target RMFDs, small capacity Class III scales, package checking, and VTMs. See section 401-4 for details of the proposed certification program. The plan below shows action items and target dates for the first certification area (tentatively RMFD's).



Discussion: The Committee was complimented on its work thus far, and it was suggested that the Central Weights and Measures Association (CWMA) might be willing to share the exams member states use for testing service agents. The Committee was asked to share its work with the regions in order to receive feedback on whether the PDC is on the right track. California indicated it has certification experience and extensive testing materials already developed for review. California also has curriculum material available on Investigative Techniques.

At the 2009 Annual Meeting the Committee formally changed the name of the program to the National Certification Program (NCP) to reflect that the program offers certification and not training.

The steps outlined in the timeline developed at the 2009 Interim meeting are being implemented. The Board of Directors has contracted with an online testing company. The format of the test and the details of test-result reporting are being worked out. Development of test questions is slightly behind schedule. The guide to writing test questions had to be reworked to accommodate the format needed for an on-line test. It is still anticipated that a beta test for the retail motor fuel device (RMFD) curriculum will be ready for evaluation in November 2009. No comments were received on this item.

401-2 I Create a Curriculum Plan

Source: Carryover Item 401-2 (This item originated from the Committee and first appeared on its agenda in 2003.)

Background: For complete background information, see the PDC page of the NCWM website www.ncwm.net/members.

Prior to the 2007 Annual Meeting, the Committee reviewed the curriculum segments submitted thus far. At the 2007 Annual Meeting, the Committee decided, based on comments from several of the regions and its own assessment, it was essential to have a standardized format to ensure uniformity. Based on a collective review of curriculum plans received, the Committee created a sample template and example for regions to use in developing other curricula. The Committee updated its curriculum (Curriculum Package) to include the NCWM Core Competency Model, which provides a model for improving the quality of education in a select discipline. The Committee included this information as a general guideline for the regions to use as they develop other curriculum topics. In addition, the Committee revisited the original “National Training Curriculum Outline” from its 2004 NCWM Annual Report (Final Report). The Committee prepared an accompanying “NCWM Curriculum Work Plan,” which is intended to assist in the management of curriculum development. The Committee also revised the

original curriculum outline to match the Work Plan see Appendix A. (This was Appendix H from the 2008 Final Report.)

The Committee updated the Curriculum Package as shown below, which is accessible from the NCWM website members' page at www.ncwm.net.

- Cover Memorandum (guide to curriculum development),
- NCWM Core Competency Model,
- NCWM Curriculum Template (curriculum guideline),
- NCWM Sample Curriculum (examples of desired format),
- Guide for Writing Test Questions (including examples),
- National Training Curriculum Outline,
- NCWM Curriculum Work Plan.

The Committee has received the following curriculum drafts (Region responsible):

- 4.2 NIST Handbook 44 – Introduction to Device Control, (NEWMA);
- 4.3.1 Static Electronic Weighing Systems, General, (NEWMA);
- 4.3.5 Small Capacity Weighing Systems, Class III, (NEWMA);
- 4.3.7 Vehicle Class III or III L, (SWMA);
- 4.4.1 Retail Motor Fuel Dispensers, (WWMA); and
- 5.3.1 Commodities, General, (CWMA).

The Committee will return the curriculum drafts received, along with the newly-revised curriculum package to the development team in each region to make revisions based on the Committee's recommendations and continue work on preparing test questions related to each segment.

The Committee will also be requesting that each region set aside time for a presentation of the new Curriculum Package at their upcoming Annual or Interim Meeting. In addition, the Committee is requesting volunteers develop additional segments. The Committee acknowledges that the CWMA volunteered to sponsor the first training session on the use of the completed curriculum.

Mike Cleary, California, contacted the PDC in October concerning training on Investigative Techniques. California has developed a course and expressed willingness to share that with the Committee.

The CWMA PDC Committee at its 2008 fall meeting asked to get feedback on the segment they prepared. They also expressed interest in seeing what the other work groups had done on their segments and associated test questions.

At the Interim Meetings, the Committee will review progress on the curriculum including the feedback to the regional work groups. It will then establish priorities for preparing the next segments and search for volunteers to begin the work.

At the 2009 Interim Meeting, the PDC reaffirmed its commitment to completing all the curriculum items, but recognized the need to prioritize the completion of those curriculum items necessary for the four competency areas, which are to be beta-tested by the end of 2010. (See PERT Diagram in section 401-1 for timeline on completion.)

At the 2009 Annual Meeting the Committee reported it considers the curriculum segments to be the critical element of the certification program. They set the standards to which the candidate will be tested. The National Training Curriculum Outline is already available online on the NCWM website. The actual curricula for Segment 4.2 *Introduction to Device Control*, Segment 4.4 *Dynamic Liquid Measuring Systems – General*, and Segment 4.4.1 *Retail Motor Fuel Dispensers (RMFD)* will be posted as soon as possible. Using these three documents plus the table found on page PDC-8 of Publication 16, jurisdictions will be able to prepare their staff to take the RMFD test and/or evaluate the strengths and weakness of their training programs based upon those curricula. In addition, the

committee will be developing the segments for small capacity class III scales, package checking, and vehicle tank meters. These segments will be posted online as they are developed.

Discussion: The significance of the levels outlined in appendix A was explained in response to a question from the floor. No other comments were received on this item.

401-3 D Instructor Improvement

Source: Carryover Item 401-3 (This item originated from the Committee and first appeared on its agenda in 2003.)

Background: Part of the formal charge to the Committee included coordination of activities to improve the competence of instructors and the uniformity of delivery of the curriculum. For complete background information, see the PDC pages of the NCWM website www.ncwm.net/members. After logging in under the members area, look under the PDC Legacy Documents for the PDC Formal Scope.

Industry has continued to support and sponsor training on their new technology for weighing and measuring devices. NIST has assured the Committee they will continue their work towards providing technical training for the trainers. The Committee supports the recommendation from the Western Weights and Measures Association (WWMA) to encourage jurisdictions to participate in the NIST, WMD Instructor Training program as those classes become available.

At the NCWM 2009 Interim meeting, a work group from the NCWM BOD provided information to the Committee on initiatives it was considering to use the NCWM website to provide training materials and other trainer aids, such as presentations, videos, etc. The Committee applauds these efforts by the Board and will support the NCWM efforts. However, the Committee will continue to maintain this item as low priority until other parts of the certification program have been completed.

At the 2009 Annual Meeting the Committee reported that no action is being taken on this item while the committee concentrates on curriculum development and the establishment of the certification program.

DISCUSSION: No comments were heard on this item.

401-4 D Certification

Source: Carryover Item 401-4 (This item originated from the Committee and first appeared on its agenda in 2003.)

Background: For complete background information, please see the PDC page of the NCWM website www.ncwm.net/members.

Subsequent to the 2006 NCWM Annual Meeting, all states not previously contacted received a letter requesting the name of their State Certification Coordinator (SCC). The state director becomes the default SCC in the absence of a designated contact. The SCC contact list is available on the PDC page of the NCWM website (www.ncwm.net/members).

The Committee continues to hear support from the regions concerning the establishment of a certification program.

The Committee has contacted the SCC of each state to gather information on its current training and certification programs. The Committee will be reviewing the Model Professional Development Training and Certification Standards Statute for Inspectors and Sealers of Weights and Measures (Appendix B) that was submitted by NEWMA. The Committee will study the sample with the possibility that it might ultimately be used to establish model criteria for a certification program.

The Committee has created a Guide for Developing Test Questions in the curriculum package referenced in Item 401-2. At the 2008 Interim Meeting, the Committee brought forth two options for building the bank of

questions for certification. The first option was to build one large bank of questions developed for use in training and during the certification exam. The second option would be to develop two banks of questions using one bank of questions for training and the second bank of protected questions used for certification.

Recommendations during the open hearing included having jurisdictions take the lead on developing the questions, administering the examination, and grading. The NCWM would issue certificates based on the jurisdictions' reported results.

Pursuant to the recommendations from the WWMA and the CWMA, the Committee is in the process of developing a model for the infrastructure of the program. The Committee believes that a model is necessary to determine what the program will look like and what the roles of the states and the NCWM should be.

The CWMA PDC Committee at their 2008 fall meeting proposed changing the name of the program to the National Certification Program. They further made recommendations regarding the creation of a standard like HB 130 or HB 44 that might be the mechanism to document the work on the curriculum and the certification program. (Also see Item 402-2 for more on PDC publications.)

At the 2009 Interim Meeting, the PDC set a goal of being ready to start beta testing a component of a certification program for at least one competency area by November 2009, with the intention of having four areas completed by the end of 2010. The basic elements of the proposed program are:

- The PDC will develop curricula, which will be published in second section of the NCWM National Certification Guide (see also Section 402-2). Until that Guide is created, completed curriculum sections will be posted on the NCWM website (PDC files section under Members Only Section).
- The PDC will develop Certification Disciplines that outline which curriculum segments and objectives will be covered under each certificate, and how they will be weighted on the exam. Those Certification Disciplines will be published in the third section of the NCWM National Certification Guide (see also Section 402-2). Until that Guide is created, completed Certification Disciplines will be posted on the NCWM website.
- The PDC will provide the NCWM BOD with a pool of test questions for each curriculum segment and objective. Pool size will be proportional to the assigned weight of each curriculum item.
- It will be the BOD responsibility to develop and administer a testing program. NCWM staff will compile the exam from the questions pools, issue certificates, and maintain records.

The first draft of a Certification Discipline for RMFD's is presented below. The Discipline outlines which curriculum segments and objectives must be mastered, what percentage of the test will be devoted to each item, and how many questions will be included from each area on a typical exam. The Committee is considering a fifty-question test format with a two-hour test time limit in the beta-test phase. Refer to the Curriculum Outline which is published on the NCWM website or the Curriculum Workplan in Appendix A for an overview of curriculum areas. The Committee is interested in feedback on the percentage weighting of the various curriculum areas.

Curriculum Discipline for RMFD Certificate		
Curriculum Areas (RMFD Certificate)	# Quest/50 Quest Exam	Approx %
1.0 Fundamentals of Weights & Measures	7	14
4.2 NIST Handbook 44 – Introduction to Device Control	8	16
4.4 Dynamic Measuring Systems - General		
4.4(1) Technology and Terminology	3	6
4.4(2) Device Operations & Functionality	3	6
4.4(3) Technical Requirements	3	6
4.4(4) User Requirements	3	6
4.4(5) Test Methods	3	6
4.4.1 Retail Motor Fuel Dispensers		
4.4.1(1) Technology and Terminology	4	8
4.4.1(2) Device Operations & Functionality	4	8
4.4.1(3) Technical Requirements	4	8
4.4.1(4) User Requirements	4	8
4.4.1(5) Test Methods	4	8

At the 2009 Interim Meetings, the AMC offered financial assistance to support development of the certification program. The AMC will consider effective ways to utilize such support in the coming months. The Committee recognizes that certification will initially be developed for regulatory inspectors, but they would like to quickly extend the program to the private sector as well.

At the 2009 Annual Meeting the Committee identified three pieces critical to the Certification Program:

- o Standards as defined by the curriculum
- o Certification Discipline - weighting of the curriculum segments (see example on PDC-8)
- o Evaluation of competence - the test

The first two steps are completed for the retail motor fuel devices (RMFDs) test and the committee is busy developing the actual test. The committee approached state directors for test questions and would like to thank California, New Hampshire, Massachusetts, New York, & the Central Weights & Measures Association for their assistance in providing questions. The questions must now be evaluated, assigned to the relevant curriculum segments, and formatted according to the requirements of the on-line testing company.

The first test on RMFDs will be a Beta test. The purpose of the Beta test is to introduce on-line testing procedures, to troubleshoot any possible difficulties, and to help the committee evaluate test questions in terms of weighting them for difficulty and curriculum coverage. The initial plan is to require a passing score of 85% on a two hour, fifty-question test. In answer to the question from the floor on whether there would be a time-out function, the answer is “No.” The test-taker must commit two hours to taking the test in one session. The results will be informational only however. No certificates will be issued based upon the results of the Beta test.

There was a question from the floor on whether it would be better to concentrate on core competencies rather than developing difficulty levels. The committee responded that the overall objective is to develop an exam that challenges the test taker with reasonable and fair questions so that a passing score is truly indicative of competence in the respective discipline. The goal is not to have overly difficult questions but to have questions that cover the breadth of issues included in the curricula.

The look and feel of the first test was demonstrated at the open hearing by presenting attendees with samples of test questions. Typical questions will be multiple choice, fill-in the blank, and situational questions where the answer is either “Yes” (if the device is in compliance as described) or a citation of the section of the handbook being violated (if the device is not in compliance in the situation described.)

A question was asked about the fees for the test. There will be no fee for the Beta test. The Board will make the decision regarding the cost of testing, and whether the fees will vary for members vs. non-members, service people vs. regulatory personnel when the certification program is operational.

The committee is working with the test company to develop a report that can be provided to both the test taker and a designated other such as the state certification coordinator or state director. The report would detail the score for each segment of the test as well as the over-all test score. The report will not identify specific questions that were missed within any given segment, nor will correct answers be provided.

The integrity of the test questions is going to be protected by blocking screen prints and copy functions during the administration of the test. A recommendation was made to have at least three versions of the test to allow retests. Randomizing the selection of test questions will ensure that no one takes the same test twice and eliminate the need for creating multiple versions of the same test.

Jurisdictions and service companies will be encouraged to participate in the Beta test within the limits of participation set by the board. The committee will make an announcement when the committee is ready to accept volunteers for the Beta test.

Although no certificates will be issued based upon the test results, the committee feels that participating jurisdictions will benefit by being able to evaluate the success of their training programs, and by having the opportunity to familiarize their staff with the experience of on-line testing. The committee will benefit by using the evaluation programs of the testing service to evaluate the difficulty and appropriateness of each test question as well as the overall effectiveness of the test and the testing process.

Interest was expressed from the floor in having state-specific testing. The committee feels that there is a likelihood that questions on State Program Scope and Overview will necessarily be state-specific. However, that is a refinement that needs to be addressed by the committee and the Board at a later date.

A comment was received from the floor that if the PDC committee still needs additional questions a request could be put out on the various NIST and NCWM list_serves.

Finally the committee appreciates the many positive comments received on the progress of the Certification Program.

401-5 D Recommended Topics for Conference Training

Source: Carryover Item 401-5 (This item originated from the Committee and first appeared on its agenda in 2003.)

Background: The Board has charged the Committee with responsibility for selecting appropriate topics for the technical sessions at future Annual Meetings. The Board asked that the Committee review and prioritize possible presentations and submit those to the Chairman. The Chairman would then work with NCWM staff to make the arrangements and schedule the sessions.

The Committee continues to carry the following list and recommends these topics for possible training seminars, roundtables, or symposia for presentation at the NCWM meetings:

- (a) Risk-based Inspections (Robert Williams, Tennessee, volunteered to present his state's Retail Motor-Fuel Device (RMFD) testing program);
- (b) Marketplace Surveys;
- (c) Auditing the Performance of Field Staff (Will Wotthlie, Maryland, volunteered to lead the session);
- (d) Alternative Fuels (including motor-fuel trends and technology updates);
- (e) Device Inspections Using a Sampling Model;
- (f) Emerging Issues;
- (g) Proper Lifting Techniques (recommended by Ken Deitzer, Pennsylvania);
- (h) Overview of OIML and its Relationship to Standards Development (recommended by Julie Quinn, Minnesota);
- (i) Back and Stress Techniques (recommended by Don Onwiler);
- (j) Public Relations, specifically dealing with aggressive/angry people (recommended by the SWMA);

- (k) Inspector Investigative Procedures (recommended by the SWMA);
- (l) General Safety Issues (recommended by the WWMA);
- (m) Defensive Driving (recommended by the WWMA);
- (n) Administrative Civil Penalty Process (recommended by the WWMA);
- (o) Price Verification (recommended by the WWMA);
- (p) Customer Service (recommended by the WWMA);
- (q) Ethics (recommended by the CWMA);
- (r) Automatic Temperature Compensation (ATC) testing for field inspectors;
- (s) Hydrogen Measuring Systems; and
- (t) OSHA Safety.

For the 2008 NCWM Annual Meeting Technical Education Sessions, the Committee recommended Automatic Temperature Compensation (ATC) testing for field inspectors and OSHA Safety. The Board accepted these topics and presentations on both were made during the 2008 Annual Meeting. The Committee will be considering topics for the 2009 Annual Meeting and welcomes suggestions from everyone.

For the 2009 NCWM Annual Meeting Technical Education Sessions, the Committee recommended seven possible topics for consideration of the NCWM Chairman:

1. Investigative Techniques (offered by Michael Cleary)
2. Handbook 44 Scale Code Tare Changes
3. Wet Tare/USDA Issues
4. Automatic Temperature Compensation (ATC)
5. Moisture Loss
6. Fuel Volatility Issues and Ethanol Blending
7. Ergonomic Lifting Techniques

The Committee believes that the training sessions at the NCWM could be taped and the video materials made available on the website to start building a library. The Committee plans to approach the AMC for funding for video equipment expressly for this purpose.

At the 2009 NCWM Annual Meeting, technical sessions presented: Investigative Techniques, Fuel Volatility, and an industry presentation on Diesel Emission Fluid (DEF). The committee solicited the body for suggestions for next year's presentations.

Just prior to the 2009 Annual Meeting, the committee sent a letter asking the Associate Membership Committee (AMC) for video equipment funding to record future technical presentations. The intention is to provide on on-line library.

Discussion: The AMC announced from the floor that they had approved the request for funding at their meeting.

402 PROGRAM MANAGEMENT

402-1 I Safety Awareness

Source: Carryover Item 402-1 (This item originated from the Committee and first appeared on its agenda in 2003.)

Background: In the past, the Committee's responsibility extended to the identification of safety issues in the weights and measures field and included efforts to increase safety awareness.

At the 2005 Annual Meeting, Past-Chairman Dennis Ehrhart recommended the Committee make training its highest priority. The Voluntary Quality Assurance Assessment program, NCWM Associate Membership Scholarships, and safety awareness efforts were carryover items from the Committee on Administration and Public Affairs (A&P) and not PDC items.

Jurisdictions should send their safety reports and issues to their regional safety liaison, who in turn will forward them to Charles Gardner, the NCWM Safety Coordinator. Charles recommends the reports or report summaries be published in the NCWM newsletter. At the 2005 Interim Meeting, a CD-ROM on safety produced for the U.S. Environmental Protection Agency was made available for review. The Committee believes safety awareness should be a part of every aspect of training for NCWM stakeholders. Below is a list of the regional safety liaisons.

SWMA	Steve Hadder, Florida Department of Agriculture & Consumer Services
WWMA	Dennis Ehrhart, Arizona Department of Weights & Measures
CWMA	Julie Quinn, Minnesota Department of Commerce
NEWMA	Michael Sikula, New York Bureau of Weights & Measures

At the 2007 Interim Meeting, the Committee decided to reach out to the regional safety liaisons and ask that they write newsletter articles designed to raise safety awareness and provide safety tips to the weights and measures community. These archived articles are on the PDC page of the NCWM website. The NCWM newsletter is published three times a year and all articles should be e-mailed to the NCWM headquarters at info@ncwm.net.

Association	Issue	Article Deadline
WWMA	2008, Issue 2	March 15, 2008
CWMA	2008, Issue 3	July 15, 2008
NEWMA	2009, Issue 1	November 15, 2008
SWMA	2009, Issue 2	March 15, 2009

Discussion: The Committee is sad to hear that Charles Gardner, our long-standing Safety Liaison has retired. The PDC would like to thank Mr. Gardner for his many years of service to this project, which he initiated. At the Interim Meetings, the Committee will consider how we move forward from here, either seeking a new liaison or changing how it will handle future safety issues.

The Committee will also continue to ask the regions to prepare articles for the NCWM newsletter and will be extending the schedule to cover the next year. At the 2009 NCWM Interim Meeting, the PDC noted that WWMA, and CWMA submitted safety articles per the schedule above. The PDC thanks Kirk Robinson (Washington State Department of Agriculture Weights and Measures Program) and the National Propane Gas Association for their contributions. The NCWM newsletter changed its publication schedule, and, consequently, there will not be a safety article in 2009, Issue 1. The Committee revised the schedule as follows for future issues. The Committee plans to notify the regional safety coordinators as their assignment date approaches.

Association	Issue	Publication Date	Article Deadline
NEWMA	2009, Issue 2	June	April 15, 2009
SWMA	2009, Issue 3	September	July 15, 2009
WWMA	2010, Issue 1	February	January 15, 2010
CWMA	2010, Issue 2	June	April 15, 2010

All articles should be e-mailed to the NCWM headquarters at info@ncwm.net.

The committee wants to make sure that regions remember to submit safety articles to the NCWM staff by the dates listed on page PDC-12 so that the articles can be included in the newsletter.

The committee also urges people to continue to submit incident reports to their regional safety coordinators.

Discussion: The Committee received no comments on this item.

402-2 D PDC Publication

This item originally served to record the development of various documents prepared in pursuit of our training and certification programs. These are available on the members section of the NCWM website at www.ncwm.net. At the 2008 Annual Meeting, the Committee indicated its desire to eliminate this item from the agenda. However, in the report from the CWMA PDC Committee, the Committee received a proposal to create a standard like HB 130 or HB 44 to serve as the work product of the Committee. This standard could be reviewed, amended, and adopted by the NCWM to make it a living document. The Committee will consider this proposal in discussions at the 2009 Interim Meetings.

Based on feedback at the 2009 NCWM Interim Meeting, the PDC decided to move forward on the new Publication to be titled NCWM Publication XX National Certification Program Guide. This publication will serve to document the details of the Certification Program.

The guide will remain under control of the PDC Committee but will not require formal NCWM vote to add new sections or revise existing sections. The Committee will add and modify sections continuously to meet its priority objectives with a concerted effort to respond to feedback from program users and the NCWM membership. The three main sections of the Guide would include:

1. Program Administration – combines historical documentation (curriculum outline and work plan, etc.) with administrative procedures on administering exams and records of certifications,
2. Competency Standards – includes the curriculum segments that describe the objectives and measurable competencies that will be used in certification, and
3. Certification Disciplines – includes one document per certification area delineating the standards from the curricula that will be covered in the exam and the weighting of the competencies.

All segments of the PDC Publication will be posted on-line as they are developed. New pages within the NCWM web site will be created for the curriculum disciplines and segments so that interested parties can easily find and utilize this material.

Guidelines for operation of the Certification Program still need to be developed and will be posted on-line when they are completed.

DISCUSSION: No comments were received on this item.

Manuel Villicaña, Chairperson, Kern County, California

Brett Gurney, Utah

Jonathan Handy, Colorado

Dan Bernaciak, Stanislaus County, California

Stacy Carlsen, Ex-officio, Marin County, California

WWMA Professional Development Committee

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Appendix A



National Conference on Weight & Measures National Certification Program

NCWM CURRICULUM WORK PLAN

Revised January 2009

Segment/Subject

Level 1/Level 2/Level 3

1. Fundamentals of Weights and Measures

- 1.1. Introduction to W&M Programs
- 1.2. W&M Laws and Regulations
- 1.3. Field Standards & Test Equipment
- 1.4. State Program Scope and Overview
- 1.5. Enforcement Powers

2. W&M Administration

- 2.1. Fundamentals of W&M Administration (Commercial System, Powers & Duties, etc.)
- 2.2. Administration Functions (Personnel, Management, Budget, Safety, etc.)
- 2.3. Legislation and Regulations (Legal Considerations, Interaction with Legislature, Stakeholders, Industry, etc.)
- 2.4. Regulatory Control (Device inspection, commodities, complaints)
- 2.5. Laboratory Metrology Administration (Purpose of Laboratory, Responsibilities of Metrologist, NIST Expectations for Recognition of Laboratory, Quality System, Training Requirements, etc.)
- 2.6. Public Relations & Communications (Publicity, Public Relations, Communications)

3. Laboratory Metrology

- 3.1. NIST Basic Metrology
- 3.2. NIST Intermediate Metrology
- 3.3. NIST Advanced Metrology

4. Device Control Program

- 4.1. Safety Considerations
- 4.2. NIST Handbook 44 – Introduction to Device Control
- 4.3. Weighing Systems, General
 - 4.3.1. Precision Weighing Systems Class I and II
 - 4.3.2. Small Capacity Weighing Systems Class III
 - 4.3.3. Medium Capacity Weighing Systems Class III
 - 4.3.4. Vehicle Scale Class III or III L
 - 4.3.5. Vehicle Scale Class III or III L – Advanced
 - 4.3.6. Railroad Track Scales
 - 4.3.7. In-Motion Railroad Track Scales
 - 4.3.8. Hopper Scale Systems
 - 4.3.9. Automatic Bulk Weighing Systems
 - 4.3.10. Automatic Weighing Systems

- 4.3.11. Belt Conveyor Weighing Systems
- 4.3.12. In-Motion Monorail Scales
- 4.3.13. Point-of-Sale Scale Systems
- 4.3.14. Other Specialty Weighing Systems
- 4.4. Dynamic Measuring Systems – General
 - 4.4.1. Retail Motor Fuel Dispensers
 - 4.4.2. Loading Rack and Other Stationary Metering Systems
 - 4.4.3. Loading Rack & Other Stationary Metering Systems – Advanced
 - 4.4.4. Vehicle-Tank Meter Systems
 - 4.4.5. Vehicle-Tank Meter Systems – Advanced
 - 4.4.6. Milk Metering Systems
 - 4.4.7. Water Meters
 - 4.4.8. LPG/Anhydrous Ammonia Liquid Metering Systems
 - 4.4.9. LPG/Anhydrous Ammonia Liquid-Metering Systems – Advanced
 - 4.4.10. LPG Vapor Meter Systems
 - 4.4.11. Mass Flow Metering Systems
 - 4.4.12. Other Metering Systems (Cryogenics, Carbon Dioxide, etc.)
- 4.5. Static Volume Measuring Systems – General
 - 4.5.1. Liquid Measures
 - 4.5.2. Farm Milk Tanks
 - 4.5.3. Dry Measures
- 4.6. Other Measuring Systems
 - 4.6.1. Taximeters and Odometers
 - 4.6.2. Wire and Cordage Measuring Systems
 - 4.6.3. Linear Measures
 - 4.6.4. Timing Devices
 - 4.6.5. Weights
 - 4.6.6. Multiple Dimension Measuring Systems
- 4.7. Quality Measuring Systems
 - 4.7.1. Grain Moisture Meters
 - 4.7.2. NIR Grain Analyzers
 - 4.7.3. Carcass Evaluation Systems
- 5. Market Practices, Laws and Regulations (NIST HB 130), & Commodities (NIST HB 133)**
 - 5.1. Safety Considerations – Market Practices, NIST Handbook 130, NIST Handbook 133
 - 5.2. NIST Handbook 130 – Laws & Regulations
 - 5.2.1. NIST Handbook 130 – General Provisions
 - 5.2.2. Packaging and Labeling Regulations
 - 5.2.3. Method of Sale Regulations
 - 5.2.4. Quality of Automotive Fuels and Lubricants
 - 5.2.5. Price Verification
 - 5.3. NIST Handbook 133 – Package Net Contents Control
 - 5.3.1. Commodities – General
 - 5.3.2. Packages Labeled by Weight, Standard and Random
 - 5.3.3. Packages Labeled by Weight, Special Commodities
 - 5.3.4. Packages Labeled by Volume (Volumetric and Gravimetric Testing)
 - 5.3.5. Packages Labeled by Volume, Special
 - 5.3.6. Packages Labeled by Length/Area/Thickness
 - 5.3.7. Packages Labeled by Count
 - 5.3.8. Other Package Types
 - 5.4. Test Purchases
 - 5.5. E-Commerce

Note: Initial Verification has been intentionally been left off this listing and will be addressed later.

Appendix B

Model Professional Development Training and Certification Standards Statute for Inspectors and Sealers of Weights and Measures

Submitted by NEWMA, October 2007

DRAFT

1. **Definition of Terms:** Unless defined otherwise by statute, the definitions contained herein shall apply to this statute.
 - 1.1 **Commission:** The permanent advisory Commission appointed pursuant to this statute to develop, plan, and certify training standards, certification, and continuing education.
 - 1.2 **Director [Commissioner or other senior state official]:** Charged by statute to administer, guide, or direct weights and measures activities within the state at state, county, or municipal level.
 - 1.3 **Sealers and Inspectors of Weights and Measures:** Those public officials appointed pursuant to existing law to inspect, approve, or condemn weighing and measuring devices or perform other activities as directed by statute or regulation. This definition shall also apply to deputy, assistant, or associate sealers and inspectors of weights and measures.
 - 1.4 **Industry Specialists:** Those individuals approved and/or licensed by the State Director to inspect, approve, or condemn specific classes or types of weighing and measuring devices.
2. **Certification and Standards Commission**
 - 2.1 **Appointment:** There shall be a permanent standing advisory Commission comprised of the Director of the state weights and measures department or his designee, and a designee from each of the following organizations: the State Weights and Measures Association, the various Regional Weights and Measures Associations, and one individual representing industry specialists. Members of said Commission shall serve without compensation. Said Commission shall be chaired by the Director or Deputy Director of weights and measures.
 - 2.2 **Rule Making Authority:** The Commission shall promulgate rules and regulations necessary to implement and maintain this statute consistent with existing rule-making state legislation.
 - 2.3 **Duties:** The Commission shall develop, and from time to time, revise the certification and continuing education requirements that are established by the Department of Weights and Measures with the advice and consent of the Commission. The Commission shall certify all inspectors, sealers and deputies and industry specialists in accordance with sections [insert specific statute citation covering the appointment of these officials] and regulations promulgated by the Commission including, but not limited to, regulations covering initial written certification testing for inspectors, sealers and deputies and industry specialists as well as mandatory continuing education programs for inspectors, sealers and deputies, and industry specialists to maintain their certifications. Every store, retail establishment, food store or food department and all merchants within the jurisdiction of the state department of weights and measures shall provide adequate space for the display of information relative to how the state inspector, local sealer or inspector or the department of weights and measures can be contacted as provided in regulations to be promulgated by the Commission. Notwithstanding any certification exemption, all sealers, inspectors, deputy sealers, deputy inspectors, and industry specialists shall participate in continuing education programs. The Commission shall establish a training and education fee to be paid by the state, county, municipality, or industry specialist's organization, which employs such sealer, inspector, deputy sealer and deputy inspector, or industry specialist sufficient to offset the cost of providing such training and education.

- 2.4 **Fees:** There shall be a revolving account established into which shall be deposited any training and education fees paid by the state, county, municipality, or industry specialist. These fees shall be used to offset any cost associated with providing such training and education mandated by the Commission.

3. Appointment of Sealers, Inspectors, Deputy Sealers

- 3.1 **Appointment:** The sealer, inspector, and all deputies shall be certified by the Commission within one year after assuming their powers and duties. Failure to become certified within one year shall be cause for termination; provided, however, sealers, inspectors or deputy sealers or deputy inspectors, employed by the state, county, or a municipality upon the effective date of this paragraph, shall become certified within two years. Sealers, inspectors or deputy sealers or deputy inspectors who pass a civil service exam for a position as a sealer, inspector or deputy sealer or deputy inspector of weights and measures, shall be exempt from initial certification requirements provided that said civil service exam contains questions and/or practices consistent with initial certification requirements.
- 3.2 **Continuing Education:** Notwithstanding any certification exemption, all sealers, inspectors and deputy sealers and deputy inspectors shall participate in continuing education programs. The Commission shall establish a training and education fee to be paid by the county or municipality which employs such sealer, inspector, deputy sealer and deputy inspector sufficient to offset the cost of providing such training and education.

4. Appointment of Industry Specialists

- 4.1 **Appointment:** All industry specialists shall be certified by the Commission prior to assuming their powers and duties as licensed industry specialists; provided, however, industry specialists performing such duties shall become certified within one year from the effective date of this statute. Failure to become certified prior to assuming their powers and duties as industry specialists shall render any inspections conducted null and void and such individuals shall be barred from further inspections for a period of not less than one year.
- 4.2 **Continuing Education:** Notwithstanding the appointment of industry specialists, they shall participate in continuing education programs approved by the Commission. The Commission shall establish a training and education fee to be paid by the business or organization employing industry specialists sufficient to offset the cost of providing such training and education.
5. **Conflict with other Laws:** Whenever the application of any provision of any other law of this state conflict with the application of any provision of sections one through four, inclusive, said sections shall prevail.
6. **Partial Invalidity:** If any provision of said sections one to four, inclusive, or the application of said sections shall be held invalid, the remainder of said sections, or the application of such provision to any person or circumstance other than that as to which it is invalid, shall not be affected thereby.