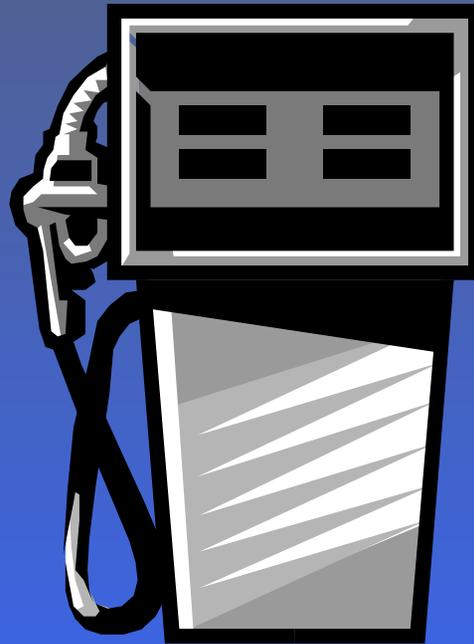




Retail Motor-Fuel Dispensers and Consoles



Chapter 1



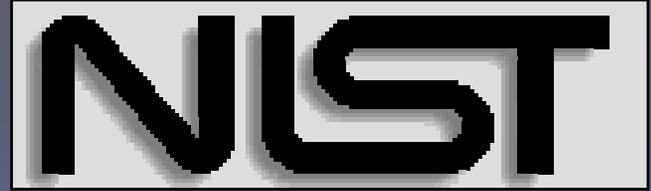
Chapter 1 Objectives

Be able to:

- Understand roles & responsibilities of various U.S. weights and measures organizations
- Identify the purpose and objectives of this course
- Identify the prerequisite knowledge and skills necessary to comprehend the content of the course



NIST's Role



- Provide technical assistance
- Promote uniformity
- Provide training
- Provide technical support to the NCWM and liaison with other federal agencies and foreign governments
- Provide technical support for the National Type Evaluation Program



National Conference on Weights and Measures (NCWM)



- Established by NIST in 1905 to promote uniformity in Weights and Measures requirements and practices
- A voluntary standards organization
 - uniformity is achieved through State adoption of NIST Handbooks



National Conference on Weights and Measures

- More than 3,500 members including:
 - Retailers, wholesalers, device, packaging companies, manufacturers, repair agencies, service technicians, and trade and industry associations
 - Federal, State, foreign, and local government officials
 - Consumers



State and Local Officials

- Enforce the system of Weights and Measures in the United States
- Adhere to Handbook 44 and local Regulations
- Follow Examination Procedure Outlines (EPO)
- Participate in training sessions when available
- Provide input to NIST, NCWM, regional weights and measures associations



Purpose of NIST Training

- Promote inspection and regulatory uniformity
- Provide weights and measures officials with the knowledge and skills they need to deal with and benefit from changing technologies



Types of NIST Courses

- Functional Courses
 - Retail Motor-Fuel Dispensers
- Elective Courses
 - Introduction to NIST Handbook 44
 - Introduction to Electronic Weighing and Measuring Systems



Other Courses

- W & M Regulation in the United States
- Introduction to Handbook 44
- Intro to Electronic W & M Systems
- Retail Computing Scales
- Medium-Capacity Scales
- Livestock and Animal Scales
- Meat Beams and Monorail Scales
- Vehicle and Axle-Load Scales



Other Courses (cont.)

- Vehicle-Tank Meters
- Loading-Rack Meters
- Liquefied Petroleum Gas Liquid-Measuring Devices
- Checking the Net Contents of Packaged Goods
- Commodity Regulations



Purpose and Content of RMFD Course

- Upon completion have the knowledge and skills to:
 - Describe types of retail motor-fuel dispensing systems
 - Describe major components of motor-fuel dispensing devices
 - Identify equipment for testing a retail motor-fuel dispensing system
 - Describe the proper use and care of equipment
 - Describe and use proper safety practices when working at the inspection site



Purpose and Content of RMFD Course (Cont)

- Describe the inspection procedures to be followed in examining a retail motor-fuel dispensing system
- Describe the steps for testing a retail motor-fuel dispensing system
- Identify the post-test tasks to be performed as part of an official field examination



Prerequisites

- Either:
 - General knowledge of NIST Handbook 44
 - OR
 - Introduction to NIST Handbook 44 (self-study course)
- No previous knowledge of fuel-dispensing systems is required



Summary

- Objectives of RMFD Course
- Roles and Responsibilities
 - NIST
 - NCWM
 - State and Local Officials
- Types of Modules and Courses
- Purpose and Content of RMFD Course
- Prerequisites