

The Atlantic Alliance Conference

May 9 – 11, 2004

Robert M. Friend

Administrator

Metal/Nonmetal Mine Safety and Health

MSHA

Education and Training

Education and Training is an Integral and Important Part of Mine Safety and Plays a Critical Role in Preventing Deaths, Injuries, and Illnesses in the Mining Industry.

Only with effective training can the industry continue to experience reduced accident and Injury rates

MSHA requires all miners (new miners and experienced miners) at surface and underground operations to attend specific training each year

Training and Retraining of Underground Miners

• Training Plans

- Operators are required to have an formal approved plan containing programs for the training of;
 - New Miners
 - Experienced Miners
 - Training Miners for New Tasks
 - Hazard Training
 - Annual Refresher Training

Training and Retraining of Underground Miners

• New Miners

- 40 Hours of instruction prior to being assigned work duties. Instruction to include but not limited to;
 - Statutory Rights of miners and their representatives
 - Self-rescue & respiratory devices
 - Entering & leaving the mine; transportation; communications
 - Mine Gases; Health; First Aid; Cleanup
 - Electrical Hazards
 - Roof or ground control and ventilation
 - Introduction to the work environment

Training and Retraining of Underground Miners

- Training Miners with New Tasks
 - Training requirements vary with the various tasks
 - Health & Safety aspects and safe operating procedures for work tasks, equipment, machinery
 - Supervised practice during non-production
 - Supervised operation during production

Training and Retraining of Underground Miners

• Hazard Training - At Least Once every 12 Months

- Hazard Training shall be completed prior to work activities;
 - Hazard recognition and avoidance
 - Emergency and evacuation procedures
 - Health and safety standards, safety rules, and safe working procedures
 - Use of self-rescue and respiratory devices
 - Other instruction may be required by the District Manager

Training and Retraining of Underground Miners

- Annual Refresher Training - 12 Months
 - Each miner is required to receive a minimum of 8 hours of Annual Refresher Training. Annual Refresher shall include but not limited to;
 - Mandatory health and safety standards
 - Transportation controls and communication systems
 - Barricading
 - Roof or ground control, ventilation, emergency evacuation and firefighting plans
 - First aid; electrical hazards; explosives; health; self rescue devices
 - Prevention of accidents

Certificate of Training

U.S. Department of Labor
Mine Safety and Health Administration



Approved OMB Number 1219-0070, Expires November 30, 2004.
This certificate is required under Public Law 91-173 as amended by Public Law 95-164. Failure to comply may result in penalties and other sanctions as provided by sections 108 and 110, Public Law 91-173 as amended by Public Law 95-164.

Issue Certificate Immediately Upon Completion of Training

Serial Number (for operator's use)

1. Print Full Name of Person Trained (first, middle, last)

2. Check Type of Approved Training Received:

Annual Refresher Experienced Miner Hazard Training
 New Task (specify below) Newly Employed, Inexperienced Miner Other (specify)

Date	Task	Initials		Date	Task	Initials	
		Instr	Studt			Instr	Studt

3. Check Type of Operation and Related Industry:

A. Surface Construction Underground Shaft & Slope
 B. Coal Metal Nonmetal

4. Date Training Requirements Completed

Check if not completed and go to item 5, below.

If completed, go to item 6, below.

5. Check Subjects Completed (use only for partially completed training):

Introduction to Work Environment Roof/Ground Control & Ventilation Health
 Hazard Recognition Mine Map; Escapeways; Emergency Evacuation; Barricading Electrical Hazards
 Emergency Medical Procedures Cleanup; Rock Dusting First Aid
 H&S Aspects of Tasks Assigned Mandatory Health & Safety Standards Mine Gases
 Statutory Rights of Miners Authority & Responsibility of Supervisors & Miners' Representatives Explosives
 Self-Rescue & Respiratory Devices Prevention of Accidents
 Transport & Communication Systems Other (specify)

6. **False certification is punishable under section 110 (a) and (f) of the Federal Mine Safety & Health Act (P. L. 91-173 as amended by P. L. 95-164).**

I certify that the above training has been completed (signature of person responsible for training)

7. Mine Name, ID, & Location of Training (if institution, give name & address)

8. Date

I verify that I have completed the above training (signature of person trained)

Clear Form

Training and Retraining of Miners working at Surface Mines and Surface Areas of Underground Mines

- Training in this sector follows the same requirements as UG miners except for some variation specifically addressing surface areas
 - New Miners (24 Hours)
 - Experienced Miners
 - Training Miners for New Tasks
 - Hazard Training
 - Annual Refresher Training
 - All Instruction will be conducted by a certified instructor

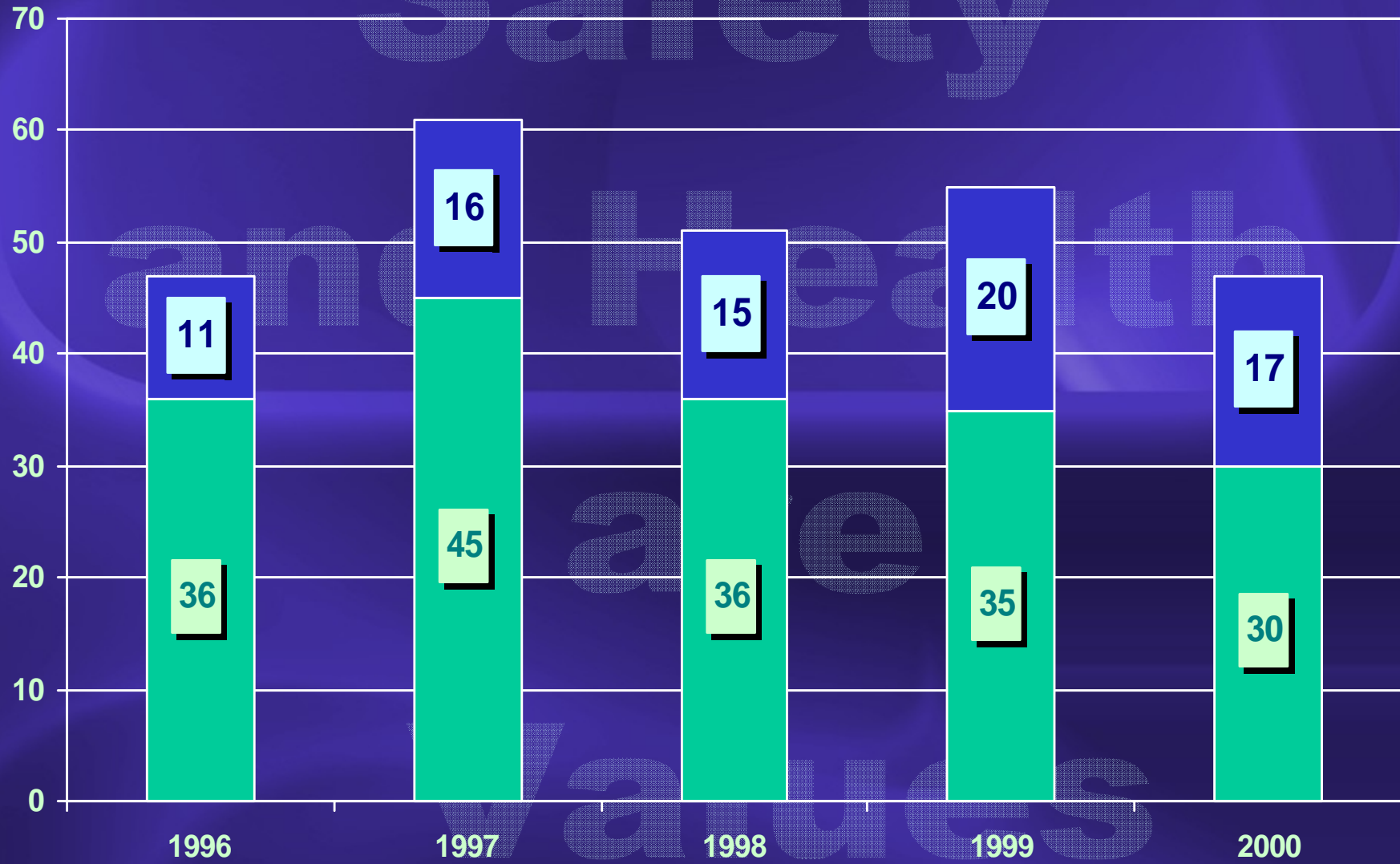
*Training and Retraining of Miners engaged in
Shell Dredging or Employed at Sand, Gravel,
Surface Stone, Surface Clay, Colloidal
Phosphate or Surface Limestone Mines*
(Part 46 Mines)

From 1996 -2000 : 70% of all Fatalities at
Metal and Nonmetal mines which are currently
classified as Part 46 operations

Values

■ Part 46 Fatal Accidents

■ Other Fatals



To address the high number of Fatal Accidents in this mining sector, a collaborative effort with labor unions, industry associations, and government was undertaken to provide required training all miners

Results:

- Proposed Part 46 Rule was published on April 14, 1999
- Final Part 46 Rule - September 30 1999

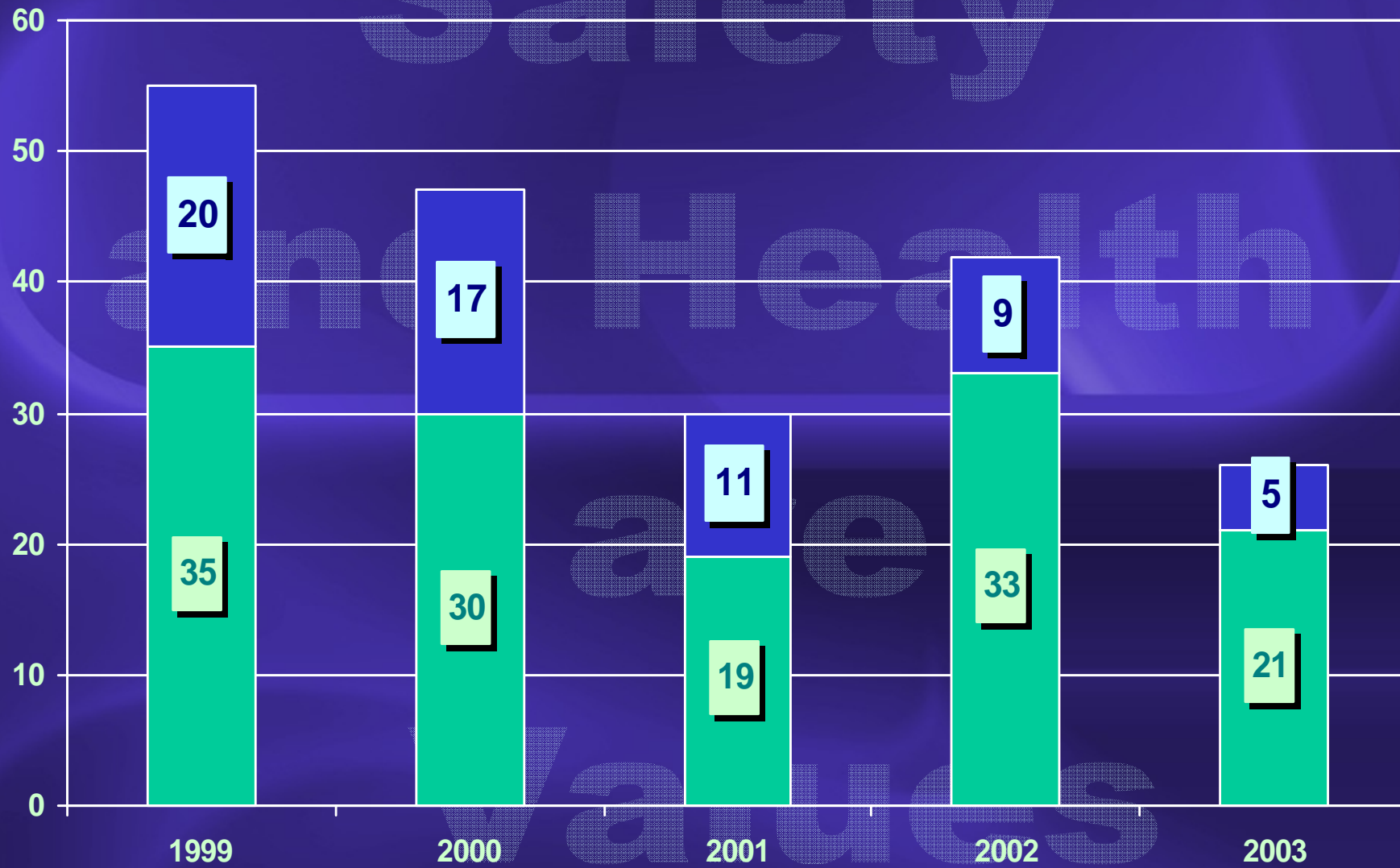
The provisions of Part 46 set forth mandatory requirements for training and retraining of miners and other persons at shell dredging; sand; gravel; surface stone, surface clay, colloidal phosphate, and surface limestone mines.

Results: Training is now required ;

- New miner training
- Newly hired experienced miner training
- Task training
- Site-specific hazard awareness training
- Annual refresher training

■ Part 46 Fatal Accidents

■ Other Fatals



National Mine Health and Safety Academy

Safety



National Mine Health and Safety Academy
Beckley, WV

Values

National Mine Health and Safety Academy

- Objective: To provide quality training for MSHA employees and effective low cost training materials for mine operators.
- Focus: Classroom training and the development of training materials

2003:

- MSHA Personnel Trained
 - 132 Entry-level inspectors
 - 1,197 Journeyman-level inspectors
 - 763 Specialists
 - 63 Supervisors

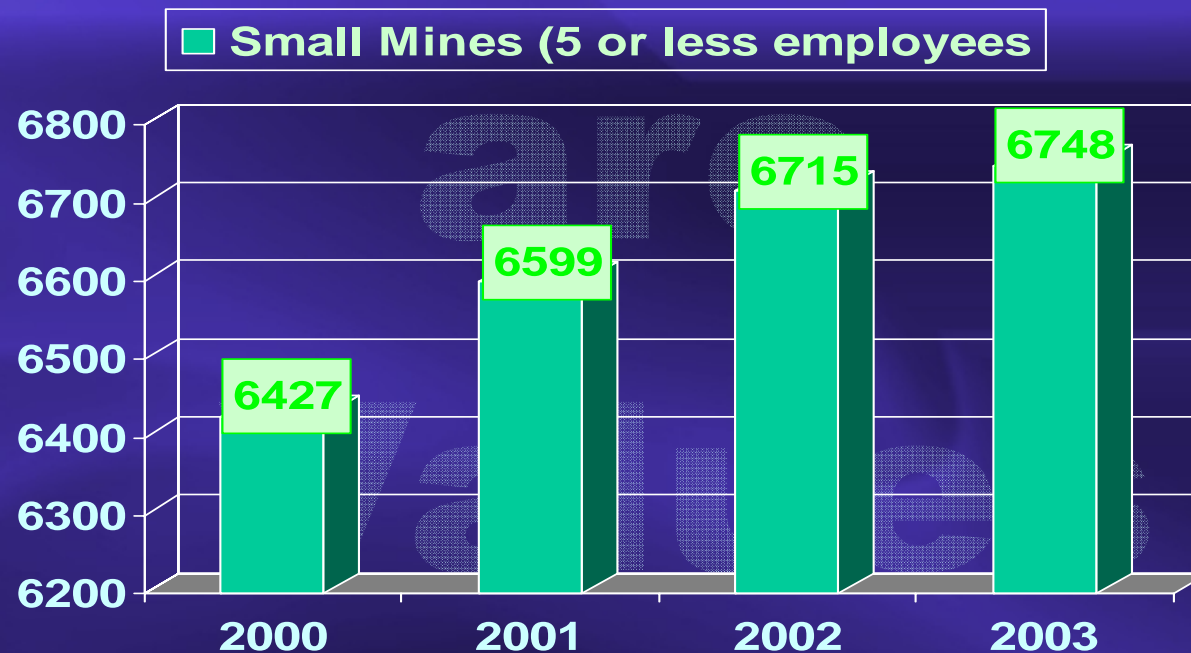
National Mine Health and Safety Academy (con't)

2003: Industry Training

- 154 Union members
- 286 State representatives
- 453 Industrial hygienists
- 1,694 Conference workshop attendees
- 2,006 Mine emergency/firefighting team members
- Development of instruction material/courses/etc.
 - 84 new/revised courses
 - Blasting
 - Surface haulage
 - Ground control
 - Compliance assistance kit for small MNM mine operators
 - Compliance assistance Tool Kit for MSHA Supervisors

Development of the Small Mines Office (2002)

- Statistical reviews indicated ;
 - Fatal accidents are more prevalent among smaller operating mines employing 5 or fewer miners
 - Fatal incidence rates at operations employing 5 or fewer employees was approximately 4 times greater than mines employing 20 or more
 - Small mines employing 5 or fewer are increasing



Small Mines Office

Assist Small Mines Develop/Support a Safety and Health Program

- **Revised safety and health training programs**
- **Developed 40 tool box safety talks**
- **Provide on-site compliance assistance**
- **Raised Industry Awareness**
 - **Workshops**
 - **Brochures**
 - **Mailings**
 - **Announcements**
- **Assisted 2,300+ small mines in 47 states**
- **Reduced Fatal Accidents with a average from 8 per year – to 5 Fatal Accidents in 2003**

Professional Miner Program

- **Goals**

- Reduce accidents and injuries by elevating status of miners to “Professional”
- Encourage miners to work safer and healthier by not taking unnecessary risks
- Communicate safety and health messages to miners through direct mailing and/or emails

Professional Miner Program

- Administer the “Professional Miner” program through the Holmes Safety Association
- H.S.A. can recognize miners who have achieved, or desire to achieve, an exemplary level of experience, training and commitment to improving safety and health in the Nation’s mines. (minimum 3 years with no lost time accidents, additional levels for no reportable accidents)
- Professional Miner would signify a stature that would encourage other miners to want to join such an organization.

MSHA and the mining community believes that training is an essential tool in the battle to reduce accidents, injuries and illnesses. We will continue to review, update, improve the quality of training, and work with the stakeholders to bring quality education to our nation's miners

EDUCATION & TRAINING
Compliance Assistance

TECHNICAL SUPPORT
Compliance Assistance

**Triangle
of
Success**

United States Department of Labor

MSHA

Mine Safety and Health Administration

Compliance Assistance
ENFORCEMENT