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EVALUATION OF S-101 COURSE
"SUPERVISORS' ORIENTATION TO OCCUPATIONAL
SAFETY IN DOE" TAUGHT IN
AMARILLO, TEXAS
NOVEMBER 17-20, 1992

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1.0 SUMMARY

This summarizes trainee evaluations for the Safety Training Section course, "Supervisors' Orientation to Occupational Safety in DOE", (S-101) which was conducted November 17-20, 1992 at the Pantex Plant, in Amarillo, Texas.

Sections 1.1 and 1.2 of this report summarize the quantitative course evaluations that trainees provided upon completion of the course. Section 1.3 provides written comments provided by the attendee, and Section 1.4 provides the examination results. Appendix A provides a transcript of the trainees' written comments and Appendix B provides the evaluation form.

Numeric course ratings were generally positive and show that the course material and instruction were very effective. The attendees were pleased with the knowledge that they gained and left the class with a heightened awareness of safety concerns as well as the ability to "navigate" 29 CFR 1910. The shop inspection seemed especially helpful and there were several requests for additional walk-around time. If this course is lengthened, additional walk-around time will be included.

Results from the final examination showed that students gained knowledge from the course. The grades were exceptionally high with an average of 95%.

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1.1 SUMMARY OF TRAINEE COURSE EVALUATION

This course was conducted at the Pantex Plant, in Amarillo, Texas, November 17-20, 1992. Tommye Wright and Troy Corbin presented the course to 25 Mason and Hanger, DOE, and Battelle-Pantex employees.

1.2 NUMERIC RATINGS

Twenty-four trainees completed a course evaluation form upon finishing the course. The first rating area of the form covered seven items dealing with course content; the second rating area covered one item dealing with testing materials; and the third rating area covered fifteen items specifically associated with course topic areas.

For the first and second rating areas, respondents were instructed to rate the degree to which they agreed or disagreed with each statement using a five-point scale with 1 (low) "strongly disagree" to 5 (high) "strongly agree". The ratings are as follows:

COURSE CONTENT AND TESTING MATERIALS RATINGS

1. Developed specific skills and competencies in health and safety that I can use as a supervisor on the job.
Average Class Rating - 4.33
2. Gained a greater understanding of safety liability, hazard recognition, hazard evaluation and hazard control.
Average Class Rating - 4.42
3. Gained factual knowledge about health and safety issues and procedures (terminology, classifications, regulations).
Average Class Rating - 4.46
4. Learned fundamental principles, generalizations, and theories.
Average Class Rating - 4.25
5. Can use the course materials to improve thinking, problem-solving, and decision-making of supervisory health and safety work.
Average Class Rating - 4.42

6. Would recommend this course to others.

Average Class Rating - 4.58

7. This course will help supervisors to make their work environments safer.

Average Class Rating - 4.58

8. The final test was a good measure of the knowledge gained in the course.

Average Class Rating - 4.23

The average class rating for the course content area and testing materials area was 4.41. This high rating reinforces the applicability of the course content to the trainees' interests and work environments.

The third rating area asked the respondents to rate the value of each of the fifteen topic areas using a five-point scale with 1 (Unsatisfactory), 2 (Satisfactory), 3 (Good), 4 (Very Good), or 5 (Excellent). The following are the average class ratings that dealt with topic content as well as with the value of the instructor:

INSTRUCTOR	TOPICAL AREAS PRESENTED	CONTENT	INSTRUCT
Tommye Wright	Requirements and consequences	4.09	4.27
Troy Corbin	OSHA compliance and DOE orders	3.82	4.23
Tommye Wright	Fire hazards	4.36	4.55
Troy Corbin	Physical hazards	4.27	4.41
Troy Corbin	Confined space hazards	4.27	4.27
Tommye Wright	Machine safeguards	4.14	4.41
Tommye Wright	Hand and portable power tools	3.95	4.23
Troy Corbin	Material handling and storage	4.00	4.32
Troy Corbin	Electrical hazards	4.23	4.45
Troy Corbin	Chemical hazards	4.32	4.50
Troy Corbin	Measurement and testing	4.05	4.27
Troy Corbin	Hazard communication	4.27	4.50
Troy Corbin	Inspections and investigations	4.23	4.41
Tommye Wright	Job safety analysis	4.18	4.45
Troy Corbin	Hazard reduction and elimination	4.14	4.45

The overall average class rating for specific topic content was 4.15. The average instructor rating for Tommye Wright was 4.38, overall rating for Troy Corbin was 4.38.

1.3 WRITTEN COMMENTS

After providing numeric course evaluations, participants provided written comments about the course. Written comments are presented in Appendix A.

1.4 EXAMINATION RESULTS

On the last day of the course, a final examination was administered to 25 attendees. There were 25 multiple-choice questions. The scores ranged from 84% to 100% with the average score being 95%. Twenty-five persons successfully completed the class.

APPENDIX A

EVALUATION COMMENTS

"SUPERVISORS' ORIENTATION TO OCCUPATIONAL SAFETY IN DOE"

NOVEMBER 17-20, 1992

AMARILLO, TEXAS (PANTECH PLANT)

APPENDIX A

TRAINEE EVALUATION RESPONSES

S101, "SUPERVISORS' ORIENTATION TO OCCUPATIONAL SAFETY IN DOE"

NOVEMBER 17-20, 1992--AMARILLO, TEXAS

PANTEX PLANT

Please briefly describe how your expectations of this course were or were not met.

I received a good review of occupational safety course.

Expectations were met by the information that was given by instructors.

Good.

Better than I expected.

All were met.

Did not know what to expect.

I learned a great deal that will benefit not only myself but the people who work around me.

Expectations were met. Learned basic OSHA requirements and was given the resources to navigate the CFR 1910.

I did not know what to expect.

I expected an overview of OSHA standards and got that.

Course was easier to take and understand than I anticipated.

Course was overall excellent for supervisors level of knowledge.

A basic review for me.

I didn't know what to expect. I loved it.

I expected to become familiar with OSHA guidelines and using (29 CFR 1910). This course met my expectations.

The most helpful topics covered or activities presented in this course were:
OSHA compliance and DOE orders.

Fire hazards.

Housekeeping.

All.

Lead, hazard communication.

Inspection.

Fire protection.

Direct application of requirements of our activities.

Inspections and investigations.

Shop inspections.

All were useful.

Fire hazards, chemical safety.

The least helpful things discussed or done were:
Measurement and testing.

Confined space.

Portable power tools.

All were useful.

Job safety analysis.

Hazard communication section.

Hand and portable power tools.

Confined space. Since no real application here.

Requirements.

Chemical--I know them.

Material handling and storage.

More emphasis should be given to:
Chemical hazards.

Consequences.

Waste ideas. I know it is covered in CFR 40, also what laws talk about what, i.e., Price Anderson Amendment.

Problem solving.

Space, walkdowns, inspections. Attempt to organize for facility specific emphasis areas.

Hazards and inspections.

Safety philosophy and responsibility.

Ergonomics.

Well balanced course.

General personal protection.

Less emphasis should be given to:
Measurement and testing.

Hazard communication.

Lecture.

What specific suggestions do you have for improving future sessions?
None.

More pictures, helps get point across.

Real life case studies.

All of the information is good. There is a limited amount of time for the information covered.

Make it last longer.

Use more site specific examples or equipment. More student participation needed.

Cover a few areas then get out and look, then cover a few more areas, get out and look.

More films of hazards and consequences.

Provide overhead transparencies. Also some of the view graphs in the manual weren't accurate or needed extra notes to make them useful.

Placement of video screen.

Other materials to supplement or substitute for the provided handouts?

Copies of overheads.

Copies of portions of some of the applicable portions of ANSI and other STD's referenced in 2910 to illustrate how they might be used.

Bigger print in 29 CFR.

Site specific DOE requirements (if applicable).

Fine.

Daily schedule/timing of activities, worktime?

Fine.

Good.

Instructors did an excellent job covering information in the allowed time. Shop inspections were beneficial.

Okay.

Adequate time was given for topics.

Worked out well.

Facilities/training room arrangements?

Fine.

Good.

Fantastic.

Good room. Larger T.V. screen would have been helpful.

Very good.

Ventilation too noisy.

What other types of safety training courses would you like to see available?
Advanced OSHA.

Haz-mat, waste operations 40 CFR, Haz-whooper.

Any further comments?

You made a very interesting course from really dull material. Thank you for a job well done.

The class was very good.

I have really enjoyed this week. This has been the most beneficial course I have ever had. I really feel like I learned a lot. I can't wait to get back to my areas and find things to correct. Thanks a lot. I really enjoyed the class! Be careful and stay out of the snow!

A well balanced course. Interesting and knowledgeable instructors.

The JSA session was kind of fun, but it was so light that I don't think I got much from it. It would be better to analyze a real work place situation.

Course material was pretty good. Instructors did a good job and generated interest in the various topics.

Liked stories of instructors past activities tied to points in course material.

More work around looking at specific requirements.

Teachers were very knowledgeable. Tommy Wright had very good delivery style.

APPENDIX B

TRAINEE EVALUATION FORM

EVALUATION FORM

S-101—Supervisors Orientation to Occupational Safety in DOE

Date _____
 Name (optional) _____
 Title _____
 Location _____

Please evaluate various features of the course you have just completed. The information you provide here will be combined with that from other trainees and summarized for the sponsor, the U.S. Department of Energy. Results from this evaluation will be used to improve this course.

Course Content	Strongly Agree	Agree	Neither Agree nor Disagree	Disagree	Strongly Disagree
Overall, as a result of this course I believe that I:					
developed specific skills and competencies in health and safety that I can use on the job.	5	4	3	2	1
gained a greater understanding of safety liability, hazard recognition, hazard evaluation and hazard control.	5	4	3	2	1
gained factual knowledge about health and safety issues and procedures (terminology, classifications, regulations)... ..	5	4	3	2	1
learned fundamental principles, generalizations, and theories.	5	4	3	2	1
can use the course materials to improve thinking, problem-solving, and decision-making of supervisory health and safety work.	5	4	3	2	1
would recommend this course to others.	5	4	3	2	1
this course will help supervisors to make their work environments safer.	5	4	3	2	1

Testing Materials	Strongly Agree	Agree	Neither Agree nor Disagree	Disagree	Strongly Disagree
The final test was a good measure of the knowledge gained in the course.	5	4	3	2	1

Topic Areas

Please evaluate each topic area using the 5-point scale below.

5 Excellent 4 Very Good 3 Good 2 Satisfactory 1 Unsatisfactory

	Content					Instructor				
Introduction to DOE safety and health program	5	4	3	2	1	5	4	3	2	1
Safety responsibility	5	4	3	2	1	5	4	3	2	1
Electrical hazards	5	4	3	2	1	5	4	3	2	1
Fire hazards	5	4	3	2	1	5	4	3	2	1
Material handling and storage	5	4	3	2	1	5	4	3	2	1
Physical hazards	5	4	3	2	1	5	4	3	2	1
Chemical hazards	5	4	3	2	1	5	4	3	2	1
Confined space hazards	5	4	3	2	1	5	4	3	2	1
Hazard communication	5	4	3	2	1	5	4	3	2	1
Hand and portable power tools	5	4	3	2	1	5	4	3	2	1
Machine safeguards	5	4	3	2	1	5	4	3	2	1
Inspections and investigations	5	4	3	2	1	5	4	3	2	1
Job safety analysis	5	4	3	2	1	5	4	3	2	1
Measurement and testing	5	4	3	2	1	5	4	3	2	1
Hazard reduction and elimination	5	4	3	2	1	5	4	3	2	1

Comments

1. Please briefly describe how your expectations of this course were or were not met. _____

2. The **most** helpful topics covered or activities presented in this course were: _____

3. The **least** helpful topics or activities in this course were: _____

4. More emphasis should be given to: _____

5. Less emphasis should be given to: _____

6. What specific suggestions do you have for improving future sessions?

7. Other materials to supplement or substitute for the provided handouts? _____

8. Daily schedule/timing of activities, worktime? _____

9. Facilities/training room arrangements? _____

10. What other types of safety training courses would you like to see available? _____

11. Any further comments? _____

12. **Overall rating:** Based on your comments above, please rate the course on a 5-point scale by circling the number of your choice.
5 Excellent 4 Very Good 3 Good 2 Satisfactory 1 Unsatisfactory

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