

APPENDIX A

**COURSE TOPICS TO BE COVERED BY TRAINING COURSES FOR PERSONS SEEKING
CERTIFICATION FROM THE DEPARTMENT TO PERFORM LEAD ABATEMENT OR
OTHER LEAD HAZARD REDUCTION ACTIVITIES OR TO CARRY OUT
LEAD MANAGEMENT ACTIVITIES**

(1) LEAD (Pb) INSPECTOR COURSE TOPICS. (a) The role and responsibilities of a lead inspector, including liability and insurance issues and working with related professionals.

(b) Background information on lead and its adverse health effects, including the history of lead use, where lead is found and lead's health effects on children and adults.

(c) Background information on Federal, State and local regulations and guidance that pertains to lead-based paint and lead-based paint activities. This is to be an overview showing how to locate and read current regulations to ensure compliance. Current regulations, which are continuously evolving, include the following:

1. Federal regulations: 40 CFR Part 745, Subparts L and Q (Lead: Requirements for Lead-based Paint Activities in Target Housing and Child-Occupied Facilities; Final Rule); 24 CFR Part 35 and 40 CFR Part 745 (Lead: Requirements for Disclosure of Known Lead-based Paint and/or Lead-based Paint Hazards in Housing); 29 CFR 1926.62 with Appendices A, B and C (Lead Exposure in Construction, Interim Final Rule); Consumer Product Safety Commission Act of 1977; and Residential Lead-Based Paint Hazard Reduction Act of 1992 (Title X of the Housing and Community Development Act of 1992).

2. State regulations: applicable sections of Wisconsin Statutes ch. 254 (Environmental Health), s. 704.07 (landlord and tenant, repairs; untenantability) and ch. 709 (Disclosures by Owners of Residential Real Estate); applicable sections of Wisconsin Administrative Code ch. HFS 163 (Certification for Lead Hazard Reduction Work and Accreditation of Lead Training Courses), ss. ILHR 32.15 and 32.50 (Safety and Health Standards for Public Employes), ch. ATCP 110 (Home Improvement Trade Practices), ch. NR 500 (General Solid Waste Management), ch. NR 502 (Solid Waste Storage, Transportation, etc.), ch. NR 506 (Landfill Operational Criteria), s. NR 600.03 (107) (household waste defined), s. NR 605.08(5) (toxicity testing defined), s. NR 610.07 (very small quantity generators), ch. NR 615 (Large Quantity Generator Standards) and ch. NR 620 (Transporter Standards and Licensing Requirements).

3. Federal guidelines: *Guidelines for the Evaluation and Control of Lead-Based Paint Hazards in Housing* (HUD, June 1995); A Statement by the Centers for Disease Control, "Preventing Lead Poisoning in Young Children", (U.S. Department of Health and Human Services, October 1991); EPA, "Guidance on Residential Lead-Based Paint, Lead-Contaminated Dust and Lead-Contaminated Soil" (FR 47248, Vol. 60, No. 175); EPA, "Residential Sampling for Lead: Protocols for Dust and Soil Sampling" (EPA report number 7474-R-95-001); other EPA guidelines for lead abatement and lead hazard reduction activities.

4. Local ordinances: s. 66-20, Subch. 2, Milwaukee Ordinance (Toxic and Hazardous Substances, Lead Poisoning Prevention and Control); Madison Ordinance 749 (Standards for Exterior Painting and Remodeling); and other applicable local ordinances.

(d) Lead-based paint inspection methods, including selection of rooms and components for sampling or testing, preparing for an inspection, obtaining background information, selecting sample locations and documented protocols for conducting lead-based paint inspections of single-family and multi-family housing. Hands-on activities must be an integral part of the teaching.

(e) Sampling and measurement techniques, including use of documented standards, protocols and methodologies for taking samples and measuring lead in paint; using an XRF, XRF legal and liability issues, chemical tests, laboratory selection and sample analysis. Hands-on activities must be an integral part of the teaching.

(f) Clearance standards and testing for abatement projects, including the purpose of clearance testing, visual examination procedures, documented protocols and methodologies for clearance dust and soil sampling and documented clearance standards. Hands-on activities must be an integral part of the teaching.

(g) Preparation of the lead inspection report. The content of the lead inspection report, including identifying information, each testing method and device used, specific locations tested and results of the inspection. Hands-on activities must be an integral part of the teaching.

(h) Recordkeeping responsibilities, record content and length of record retention.

(2) LEAD (Pb) PROJECT DESIGNER COURSE TOPICS. (a) The role and responsibilities of a lead project designer, including contract specifications and cost estimates, Wisconsin certification and abatement notification requirements.

(b) Development and implementation of an occupant protection plan for large-scale abatement projects. This shall include measures and management procedures to protect building occupants from exposure to lead-based paint hazards during abatement, educating building occupants and preparing the occupant protection plan.

(c) Lead-based paint abatement and lead-based paint hazard reductions, including restricted practices for large-scale abatement projects. Personal protection, containment, decontamination, documented abatement and hazard reduction protocols and methodologies and prohibited practices.

(d) Interior dust abatement and cleanup or lead hazard control and reduction methods for large-scale abatement projects. The major sources of lead in dust, effects of long-term exposure compared to short-term exposure and documented cleaning protocols and methodologies.

(e) Clearance standards and dust sampling for large-scale abatement projects. The purpose of clearance testing, visual examination procedures, documented protocols and methodologies for clearance dust and soil sampling and documented clearance standards.

(f) Integration of lead-based paint abatement methods with modernization and rehabilitation projects for large-scale abate-

ment projects. Lead abatement versus interim controls and the relationship of lead-based paint abatement and hazard reduction to renovation, repainting, remodeling, rehabilitation, weatherization and other construction work.

(3) LEAD (Pb) RISK ASSESSOR COURSE TOPICS. (a) The role and responsibilities of a lead risk assessor, including working with related professionals, liability issues and insurance issues.

(b) Collection of background information to perform a risk assessment. The objectives of the initial client contact, gathering background information on building occupants, including children with elevated blood lead levels, and gathering background information on the property.

(c) Sources of environmental lead contamination, such as paint, surface dust and soil, water, air, packaging and food. Sources of lead contamination, possible locations for lead and lead-based paint in buildings and conditions when lead-based paint is considered a hazard.

(d) Visual inspection for the purposes of identifying potential sources of lead-based hazards. The purpose of the visual inspection for hazard detection and documented protocols and methodologies for performing a visual inspection. Hands-on activities must be an integral part of the teaching.

(e) Lead hazard screen protocol, including when a lead hazard screen may be appropriate, documented lead hazard screen protocols and methodologies for conducting a lead hazard screen.

(f) Sampling for sources of lead exposure other than lead-based paint, including hands-on activities as an integral component of the course. Documented standards, protocols and methodologies for taking samples and measuring lead in addition to the sampling methodologies for paint, dust, soil and water taught in the lead inspector course.

(g) Interpretation of lead-based paint and other lead sampling results, including all applicable state and federal government regulations and guidance pertaining to lead-based paint hazards and including hands-on activities as an integral component of the course. Evaluating sample results and applying current local, state and federal regulations and guidance to the results.

(h) Development of hazard control options, the role of interim controls and operations and maintenance activities to reduce lead-based paint hazards. Abatement and other hazard control options, interim control options, cost/benefit ratios of options and schedules for re-evaluation of interim controls.

(i) Preparation of a final risk assessment report. The content of a lead risk assessment report, including identifying information, results of the visual inspection, testing method and sampling procedures used, locations sampled, data collected, laboratory results, a description of the hazards, abatement or interim control options for addressing each hazard and a recommended maintenance and monitoring schedule for interim controls.

(4) LEAD (Pb) SUPERVISOR COURSE TOPICS. (a) Role and responsibilities of a lead (Pb) supervisor. Management of lead hazard reduction projects, supervision of lead (Pb) workers, community relations and contract specifications.

(b) Background information on lead and its adverse health effects. Emphasize the need to prevent additional exposure to lead hazards.

(c) Background information on federal, state and local regulations and guidance that pertain to lead-based paint abatement. Supplement material from lead (Pb) worker course with an in-

depth review of federal, state and local government regulations and guidance that pertain to lead hazard reduction activities, including requirements for training employees, worker protection, recordkeeping and notification. Current regulations and guidelines, which are continuously evolving, include the following:

1. Federal regulations: 40 CFR Part 745, Subparts L and Q (Lead: Requirements for Lead-based Paint Activities in Target Housing and Child-Occupied Facilities; Final Rule); 24 CFR Part 35 and 40 CFR Part 745 (Lead: Requirements for Disclosure of Known Lead-based Paint and/or Lead-based Paint Hazards in Housing); 29 CFR 1926.62 with Appendices A, B and C (Lead Exposure in Construction, Interim Final Rule); Consumer Product Safety Commission Act of 1977; and Residential Lead-Based Paint Hazard Reduction Act of 1992 (Title X of the Housing and Community Development Act of 1992).

2. State regulations: applicable sections of Wisconsin Statutes ch. 254 (Environmental Health), s. 704.07 (landlord and tenant, repairs; untenantability) and ch. 709 (Disclosures by Owners of Residential Real Estate); applicable parts of Wisconsin Administrative Code ch. HFS 163 (Certification for the Identification, removal and Reduction of Lead-Based Paint Hazards), ss. ILHR 32.15 and 32.50 (Safety and Health Standards for Public Employees), ch. ATCP 110 (Home Improvement Trade Practices), ch. NR 500 (General Solid Waste Management), ch. NR 502 (Solid Waste Storage, Transportation, etc.), ch. NR 506 (Landfill Operational Criteria), s. NR 600.03 (107) (household waste defined), s. NR 605.08(5) (toxicity testing defined), s. NR 610.07 (very small quantity generators), ch. NR 615 (Large Quantity Generator Standards) and ch. NR 620 (Transporter Standards and Licensing Requirements).

3. Federal guidelines: *Guidelines for the Evaluation and Control of Lead-Based Paint Hazards in Housing* (HUD); A Statement by the Centers for Disease Control and Prevention, "Preventing Lead Poisoning in Young Children", (U.S. Department of Health and Human Services); EPA, "Guidance on Residential Lead-Based Paint, Lead-Contaminated Dust and Lead-Contaminated Soil" (FR 47248, Vol. 60, No. 175); EPA, "Residential Sampling for Lead: Protocols for Dust and Soil Sampling" (EPA report number 7474-R-95-001); other EPA guidelines for lead abatement and lead hazard reduction activities.

4. Local ordinances: s. 66-20, Subch. 2, Milwaukee Ordinance (Toxic and Hazardous Substances, Lead Poisoning Prevention and Control); Madison Ordinance 749 (Standards for Exterior Painting and Remodeling); ordinances relating to lead-based paint for Brown County, Eau Claire and Racine and other applicable local ordinances.

(d) Liability and insurance issues relating to lead-based paint abatement. An overview of contract liability, standard of reasonable care, property damage and personal injury, tort liability, vicarious liability, types of lead abatement insurance and worker's compensation insurance.

(e) Risk assessment and inspection report interpretation, including hands-on activities. Using a risk assessment or inspection report in planning an abatement project.

(f) Development and implementation of an occupant protection plan and abatement report. Work practice standards for occupant protection plans and reports, including their purpose and development.

(g) Lead-based paint hazard recognition and control. Supplement material from lead (Pb) worker course on limiting exposure to lead-based paint hazards by reviewing engineering practices,

developing the safety and health care plan, medical surveillance, site characterization and measuring exposure during abatement. The hands-on instructional activities and hands-on skills assessment for this topic are covered in the prerequisite worker course.

(h) Lead-based paint abatement, lead-based paint hazard reduction methods and restricted practices. With an emphasis on the supervisor's responsibility for ensuring compliance with work practice standards, supplement material from lead (Pb) worker course by reviewing abatement procedures. The hands-on instructional activities and hands-on skills assessment for this topic are covered in the prerequisite worker course.

(i) Interior dust abatement, cleanup and lead-based paint hazard control and reduction methods. With an emphasis on the supervisor's responsibility for ensuring compliance with work practice standards, supplement material from lead (Pb) worker course by reviewing interior cleanup procedures. The hands-on instructional activities and hands-on skills assessment for this topic are covered in the prerequisite worker course.

(j) Soil and exterior dust abatement, lead-based paint hazard control and reduction methods. With an emphasis on the supervisor's responsibility for ensuring compliance with work practice standards, supplement material from lead (Pb) worker course by reviewing soil and exterior dust cleanup procedures. The hands-on instructional activities and hands-on skills assessment for this topic are covered in the prerequisite worker course.

(k) Clearance standards and testing. Preparing for clearance, working with the inspector or risk assessor conducting clearance and ensuring compliance with work practice standards for clearance.

(l) Cleanup and waste disposal. Washing techniques, high efficiency particulate air vacuuming and preparing waste for disposal. Ensuring compliance with work practice standards.

(m) Recordkeeping. Work practice standards for reports and records.

(5) LEAD (Pb) WORKER COURSE TOPICS. (a) Role and responsibilities of a lead (Pb) worker performing abatement or other lead hazard reduction:

(b) Background information on lead and its adverse health effects. Identification of lead-based paint and coatings; exposure measurements; examples and discussion of the uses of lead in buildings, such as in pipes, petroleum products and solder; locations of lead-based paint in buildings; sources of environmental lead contamination, such as paint, surface dust and soil, water, air, packaging and food; the association of deteriorated lead-based paint and lead poisoning and the need for objective testing; and the nature of lead-related diseases, including the definition of lead poisoning in terms of symptoms and diagnosis.

(c) Background information on federal, state and local government regulations and guidance that pertain to lead-based paint and lead-based paint activities. This is to be an overview of federal, state and local government regulations and guidelines pertaining to lead-based paint activities, with emphasis on training, certification and notification requirements under ch. HFS 163, Wis. Adm. Code.

(d) Lead-based paint hazard recognition and control, including hands-on activities. Overview of construction terminology, site characterization, exposure measurements, material identification, safety issues and engineering, program implementation and work practices.

(e) Abatement, lead-based paint hazard reduction methods and restricted practices, including hands-on activities. Work practice standards for abatement, abatement methods, engineering, cleanup after abatement, waste disposal, hands-on practice in lead reduction and the advantages and disadvantages of each lead hazard reduction activity.

(f) Interior dust abatement methods, cleanup and lead-based paint hazard reduction, including hands-on activities. Work practice standards for interior dust reduction, lead hazard reduction methods for interior dust, including cleaning methods, cleanup after abatement or lead hazard reduction, engineering and work practices, waste disposal and hands-on practice with interior dust abatement methods.

(g) Soil and exterior dust abatement methods and lead-based paint hazard reduction, including hands-on activities. Work practice standards for soil and exterior dust reduction, lead hazard reduction methods for soil and exterior dust, cleanup after abatement or lead hazard reduction, engineering and work practices, waste disposal and hands-on practice with soil and exterior dust abatement methods.

(6) LEAD (Pb) WORKER-HOMEOWNER COURSE

TOPICS. (a) Role and responsibilities of a worker-homeowner performing abatement in the homeowner's own nonrental dwelling or real property. Include the need to use special procedures, such as cleaning for clearance, or special equipment, such as a high efficiency particulate air vacuum, to reduce exposure to lead hazards during the lead hazard reduction project.

(b) Background information on lead and its adverse health effects. Identification of lead-based paint and coatings; exposure measurements; examples and discussion of the uses of lead in buildings, such as in pipes, petroleum products and solder; locations of lead-based paint in buildings; sources of environmental lead contamination, such as paint, surface dust and soil, water, air, packaging and food; the association of deteriorated lead-based paint and lead poisoning and the need for objective testing; and the nature of lead-related diseases, including the definition of lead poisoning in terms of symptoms and diagnosis.

(c) Background information on federal, state and local government regulations and guidance that pertain to a homeowner performing lead-based paint abatement in the homeowner's own nonrental dwelling. Current regulations and guidelines, which are continuously evolving, include the following:

1. Federal regulations: 24 CFR Part 35 and 40 CFR Part 745 (Lead: Requirements for Disclosure of Known Lead-based Paint and/or Lead-based Paint Hazards in Housing).

2. State regulations: ch. 709, Stats., (Disclosures by Owners of Residential Real Estate) and Wisconsin Administrative Code ch. HFS 163 (Certification for Lead Hazard Reduction Work and Accreditation of Lead Training Courses).

3. Federal guidelines: *Guidelines for the Evaluation and Control of Lead-Based Paint Hazards in Housing* (HUD) and *Lead in Your Home: A Parent's Reference Guide* (EPA).

4. Local ordinances: s. 66-20, Subch. 2, Milwaukee Ordinance (Toxic and Hazardous Substances, Lead Poisoning Prevention and Control); Madison Ordinance 749 (Standards for Exterior Painting and Remodeling); ordinances relating to lead-based paint for Brown County, Eau Claire and Racine and other applicable local ordinances.

(d) Lead-based paint hazard recognition and control, including hands-on activities. Overview of construction terminology,

site characterization, exposure measurements, material identification, safety issues and engineering, program implementation and work practices.

(e) Abatement, lead-based paint hazard reduction methods and restricted practices, including hands-on activities. Work practice standards for abatement, abatement methods, engineering, cleanup after abatement, waste disposal, hands-on practice in lead reduction and the advantages and disadvantages of each lead hazard reduction activity.

(f) Interior dust abatement methods, cleanup and lead-based paint hazard reduction, including hands-on activities. Work practice standards for interior dust reduction, lead hazard reduction methods for interior dust, including cleaning methods, cleanup after abatement or lead hazard reduction, engineering and work practices, waste disposal and hands-on practice with interior dust abatement methods.

(g) Soil and exterior dust abatement methods and lead-based

paint hazard reduction, including hands-on activities. Work practice standards for soil and exterior dust reduction, lead hazard reduction methods for soil and exterior dust, cleanup after abatement or lead hazard reduction, engineering and work practices, waste disposal and hands-on practice with soil and exterior dust abatement methods.

(7) **LEAD (Pb) REFRESHER COURSE TOPICS.** (a) An overview of current safety practices relating to lead-based paint activities in general, as well as specific information pertaining to the appropriate discipline.

(b) Current laws and regulations relating to lead-based paint activities in general, as well as specific information pertaining to the appropriate discipline.

(c) Current technologies relating to lead-based paint activities in general, as well as specific information pertaining to the appropriate discipline.

(d) A review of key aspects of the initial course.

APPENDIX B
NUMBER OF UNITS TO BE TESTED IN MULTIFAMILY DEVELOPMENTS

Number of units in building or group of buildings with similar floor plans, construction and paint history	Number of units to be tested
0-20	all buildings
21-26	20
27	21
28	22
29-30	23
31	24
32	25
33-34	26
35	27
36	28
37	29
38-39	30
40-50	31
51	32
52-53	33
54	34
55-56	35
57-58	36
59	37
60-73	38
74-75	39
76-77	40
78-79	41
80-95	42
96-97	43
98-99	44
100-117	45
118-119	46
120-138	47
139-157	48
158-177	49
178-197	50
198-218	51
219-258	52
259-299	53
300-379	54
380-499	55
500-776	56
777-1004	57
1005-1022	58
1023-1039	59
1,040 or more units	5.8% of units, rounded to nearest unit

