

Asbestos Abatement Project Checklist

Important Note: This is a summary of the Asbestos Abatement Act and Rules. It is not a substitute for the full Act and Rules. The complete text of the Asbestos Abatement Act and Rules is posted on the MDH web site:

- [Minnesota Statutes and Rules: Asbestos](https://www.health.state.mn.us/communities/environment/asbestos/rules.html)
(<https://www.health.state.mn.us/communities/environment/asbestos/rules.html>)

1. Credentialing and Personnel

#	Standard	Standard Summary	Yes	No	N/A
1a	MS 326.72.1	Contractor has current MDH asbestos contractor license			
1b	MS 326.73.1	Individual is a certified worker. A current MDH certification is available			
1c	MS 326.73.1	Individual is a certified supervisor. A current MDH certification is available			
1d	MR 4620.3250.1	ARW is only being performed by MDH certified supervisors and workers			
1e	MR 4620.3250.1.A	Contractor employs only MDH certified supervisors or workers			
1f	MR 4620.3250.2.A	An MDH certified supervisor is present at the work site at all times when ARW is performed			

2. Documentation

#	Standard	Standard Summary	Yes	No	N/A
2a	MR 4620.3435 and MS 326.72.2	The project permit is available			
2b	MR 4620.3435 and MS 326.72.2	The project notice is available			
2c	MR 4620.3440.1.A	A daily sign in/out log identifying individuals by name, certificate number, time in abatement area			
2d	MS 326.72.2	Contractor has current MDH asbestos contractor license available			
2e	MR 4620.3440.1.B	The asbestos project plan is available			

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#	Standard	The Project Plan Contains	Yes	No	N/A
2f	MR 4620.3560.3.A	The name and address of the project site			
2g	MR 4620.3560.3.B	A list of the asbestos work areas			
2h	MR 4620.3560.3.C	The amount and type of ACM to be removed			
2i	MR 4620.3560.3.D	Date when HVAC system will be shut down			
2j	MR 4620.3560.3.E	The person responsible for item D			
2k	MR 4620.3560.3.F	The capacity of each HEPA unit used			
2l	MR 4620.3560.3.G	The air changes per hour calculations and number of HEPA units used to maintain - 0.02"WC			
2m	MR 4620.3560.3.H	Documentation if negative air system is exhausted indoors			
2n	MR 4620.3560.3.I	A floor plan or sketch which indicates:			
2o	MR 4620.3560.3.I.1	The dimensions and volume of containment			
2p	MR 4620.3560.3.I.2	HEPA unit locations			
2q	MR 4620.3560.3.I.3	The decontamination unit location			
2r	MR 4620.3560.3.I.4	The bag-out location			
2s	MR 4620.3560.4	Any changes to the project plan are documented			
2t	MR 4620.3440.1.C	All on-site air monitoring results are available			
2u	MR 4620.3440.1.D	Negative air pressure records have date and time of the measurements. Any deviations are documented			

3. Cleaning Abatement Area before Abatement

#	Standard	Standard Summary	Yes	No	N/A
3a	MR 4620.3566.A	Uncontaminated movable objects removed from the containment area			
3b	MR 4620.3566.C	Decontaminated movable objects removed from the containment area			
3c	MR 4620.3566.E	All remaining surfaces in the containment area are cleaned by HEPA-filter vacuuming or wet wiping			

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4. Installation of Critical Barriers

#	Standard	Standard Summary	Yes	No	N/A
4a	MR 4620.3567	Critical barriers are installed			
4b	MR 4620.3567.A	Anything not removed from the containment area is covered with one layer of six-mil poly			
4c	MR 4620.3567.B	All HVAC openings and seams, in the containment area, are sealed with two layers of six-mil poly			
4d	MR 4620.3567.C	All penetrations are sealed with one layer of six-mil poly			
4e	MR 4620.3567.D	All other porous surfaces are sealed with one layer of six-mil poly			
4f	MR 4620.3567.E	All openings between the containment and other areas are sealed with one layer of six-mil poly			
4g	MR 4620.3567.F	All openings between the containment and other areas are sealed with one layer of six-mil poly			

5. Containment

#	Standard	Standard Summary	Yes	No	N/A
5a	MR 4620.3568.1	Containment is constructed			
5b	MR 4620.3568.2.A	Floor sheeting is two layers of six-mil poly			
5c	MR 4620.3568.3	Wall sheeting is one layer of four-mil poly			
5c	MR 4620.3568.5	All approaches to the work area have warning signs			

6. Decontamination Unit

#	Standard	Standard Summary	Yes	No	N/A
6a	MR 4620.3569.1	Decontamination unit is being used by all persons exiting the containment			
6b	MR 4620.3569.1.A	Decontamination unit is attached to the containment			
6c	MR 4620.3569.1.B	Consist of a series of connecting rooms			
6d	MR 4620.3569.1.C	Rooms have doorways consisting of two overlapping sheets of plastic			
6e	MR 4620.3569.1.D.1	Shower room is leak proof			

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#	Standard	Standard Summary	Yes	No	N/A
6f	MR 4620.3569.1.D.2	The shower has a series of water filters with the last filter being a 5.0 micron filter			
6g	MR 4620.3569.1.D.3	The shower tap has hot/cold water that is adjustable			
6h	MR 4620.3569.4	Decontamination unit for residential abatement has a clean room, shower room and dirty room (3 stage)			
6i	MR 4620.3569.5	Decontamination unit for commercial abatement has a clean room, air lock, shower room, air lock, and dirty room (5 stage)			

7. HEPA-Filtered Negative Pressure

#	Standard	Standard Summary	Yes	No	N/A
7a	MR 4620.3570.1	The containment has HEPA-filter equipped ventilation			
7b	MR 4620.3570.3	The HEPA-filter equipped ventilation operates nonstop from asbestos disturbance until clearance			
7c	MR 4620.3570.4.A	HEPA-filter equipped ventilation system provides at least 4 air changes per hour			
7d	MR 4620.3570.4.B	A pressure of at least -0.02"WC is established and maintained within the containment			
7e	MR 4620.3570.4.C	The pressure is measured by a recording manometer			
7f	MR 4620.3570.4.C.1	The recording manometer is placed as far as possible from the HEPA-filter equipped ventilation			
7g	MR 4620.3570.4.C.2	The recording manometer is placed to read negative pressure			
7h	MR 4620.3570.4.C.3	The recording manometer must be monitored every two hours to ensure continuous operation			
7i	MR 4620.3570.4.C.6.i	If the recording manometer fails, an operating manometer is placed in service within 24 hours			
7j	MR 4620.3570.4.C.6.ii	If the recording manometer fails, hourly pressure readings are documented for all work shifts.			

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#	Standard	Standard Summary	Yes	No	N/A
7k	MR 4620.3570.4.C.6.iii	If the recording manometer fails, each failure is documented			
7l	MR 4620.3570.5.B	If unable to establish/maintain -0.02"WC, the air changes must be increased to six air changes per hour			
7m	MR 4620.3570.5.C.1	If unable to establish/maintain -0.02"WC, the probable cause is documented			
7n	MR 4620.3570.5.C.2	If unable to establish/maintain -0.02"WC, the date of the failure is documented			
7o	MR 4620.3570.5.C.3	If unable to establish/maintain -0.02"WC, the time of the failure is documented			
7p	MR 4620.3570.5.C.4	If unable to establish/maintain -0.02"WC, the name of the supervisor at the time of the failure is documented			
7q	MR 4620.3570.5.D	If unable to establish or maintain -0.02"WC, for the methods used to reestablish -0.02"WC documentation is available			
7r	MR 4620.3570.6	The HEPA-filter equipped ventilation exhausts outside the facility			
7s	MR 4620.3570.6	If the HEPA-filter equipped ventilation exhausts indoors, one air sample is collected in the vicinity of the exhaust every four hours during abatement			

8. Removal of ACM

#	Standard	Standard Summary	Yes	No	N/A
8a	MR 4620.3571.1.A	ACM is wet before removal			
8b	MR 4620.3571.1.B	ACM is adequately wet during removal			
8c	MR 4620.3571.1.C	ACM is placed and sealed in containers while adequately wet			
8d	MR 4620.3571.1.D	ACM is not allowed to dry			
8e	MR 4620.3571.2.B	An object covered with ACM is wet before being sealed in six-mil clear poly or comparable material			
8f	MR 4620.3571.3	Waste containers are sealed			

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9. Completion of Abatement

#	Standard	Standard Summary	Yes	No	N/A
9a	MR 4620.3575.1.B	Work area is cleaned until no asbestos dust, residue, dirt, or debris is visible			
9b	MR 4620.3575.1.D	All abatement equipment is cleaned and removed from the containment, except for the HEPA-filtered equipped machine			
9c	MR 4620.3575.1.F	Removed ACM is taken out of the containment			
9d	MR 4620.3575.3.A.1	The encapsulant is applied after containment has passed the visual inspection			
9e	MR 4620.3575.3.A.3	The encapsulant is completely dry before final clearance air sample collection			
9f	MR 4620.3575.3.B.2	The encapsulant is completely dry before walls and floors are removed			
9f	MR 4620.3575.7	Critical barriers areas are inspected and cleaned to ensure that no surface contamination is visible			
9g	MR 4620.3575.7.A	Any visible contamination must be cleaned using a HEPA-filter equipped vacuum, wet wiping, or both, until no contamination is visible			
9h	MR 4620.3575.9.A	Metal or fiber drums with locking tops are used for disposal of ACM that has sharp edges			
9i	MR 4620.3575.9.B.1	Six-mil poly bags are clear			
9j	MR 4620.3575.9.B.2	Six-mil poly bags are goose necked before sealing			
9k	MR 4620.3575.9.B.3	Six-mil poly bags are doubled to prevent leakage			

10. Glove Bag Procedures

#	Standard	Standard Summary	Yes	No	N/A
10a	MR 4620.3580.1	Glove bag removal is limited to less than 25 feet of pipe insulation or 10 square feet of ACM per room			
10b	MR 4620.3580.2	A remote decontamination unit is made available before the glove bag is set up			
10c	MR 4620.3580.2	A remote decontamination unit is used whenever an individual leaves the asbestos work area			
10d	MR 4620.3580.2.A	The remote decontamination unit is placed within 20 feet of the glove bag operation			

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#	Standard	Standard Summary	Yes	No	N/A
10e	MR 4620.3580.2.B.1	If wearing one suit, put on a second suit, proceed to decontamination unit (GLOVEBAGGING/MINI ONLY)			
10f	MR 4620.3580.2.B.2	If wearing two suits, remove first suit, proceed to decontamination unit (GLOVEBAGGING/MINI ONLY)			
10g	MR 4620.3580.3	The remote decontamination unit has a clean room, air lock, shower room, air lock, and dirty room			
10h	MR 4620.3580.4.A	Area within ten feet of the glove bag is cleaned using HEPA-filter equipped vacuum, wet wiping, or both			
10i	MR 4620.3580.4.B	Six-mil poly is placed on the floor below the glove bag			
10j	MR 4620.3580.4.D	Damaged pipe insulation is sealed with two layers of six-mil poly before the glove bag is used			
10k	MR 4620.3580.5.G	Before the glove bag is removed, a visual inspection of the abated surface within the glove bag is performed			
10l	MR 4620.3580.6.F	Area beneath the glove bag is inspected for dust or debris			
10m	MR 4620.3580.6.G	Dust and debris from the glove bag is cleaned using HEPA-filter equipped vacuum, wet wiping or both			
10n	MR 4620.3580.7	On-site handling of ACM from a glove bag complies with part 4620.3575, subpart 9			

11. Mini-Containment Procedures

#	Standard	Standard Summary	Yes	No	N/A
11a	MR 4620.3581.1	Mini-containment removal is limited to less than 25 feet of pipe lagging or 10 square feet of ACM per room			
11b	MR 4620.3581.2.A	If wearing two suits, remove first suit, proceed to decontamination unit (GLOVEBAGGING/MINI ONLY)			
11c	MR 4620.3581.2.C	If wearing one suit, put on a second suit, proceed to decontamination unit (GLOVEBAGGING/MINI ONLY)			
11d	MR 4620.3581.3	The remote decontamination unit has a clean room, air lock, shower room, air lock, and dirty room			

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#	Standard	Standard Summary	Yes	No	N/A
11e	MR 4620.3581.3.A	Remote decontamination is available prior to the start of the mini-containment			
11f	MR 4620.3581.3.B	Remote decontamination used by individuals following the mini-containment			
11g	MR 4620.3581.4.B	Area within ten feet of the mini-containment is cleaned using a HEPA-filter vacuum, wet wiping, or both, until no dust nor debris is visible			
11h	MR 4620.3581.4.B.1	Mini-containment is constructed of one layer of six-mil poly			
11i	MR 4620.3581.4.B.2	Negative pressure is provided with a HEPA-filter equipped vacuum or a HEPA-filter equipped machine			
11j	MR 4620.3581.5.A	Negative pressure is maintained until the mini- containment is collapsed			
11k	MR 4620.3581.5.A	Negative pressure is maintained until the mini- containment is cleared			
11l	MR 4620.3581.5.B	No visible ACM remains on work surfaces			
11m	MR 4620.3581.5.C	All exposed ACM within the mini-containment is encapsulated prior to removal of the mini-containment			
11n	MR 4620.3581.6.G.1	Mini-containment is removed by collapsing the containment using a HEPA-filter equipped vacuum			
11o	MR 4620.3581.6.G.2	Mini-containment is removed after performing clearance air sampling			

12. Removal of Entire Facility Components with Intact ACM

#	Standard	Standard Summary	Yes	No	N/A
12a	MR 4620.3582.2.A	Glove bagged ACM does not exceed 25 linear feet per room or 10 square feet			
12b	MR 4620.3582.2.B	The ACM is not damaged			
12c	MR 4620.3582.3.A	Area within 10' of ACM is pre-cleaned			
12c	MR 4620.3582.3.B	The ACM was wetted with water before wrapping			
12d	MR 4620.3582.3.B.2	The ACM remains wet until disposal			
12e	MR 4620.3582.3.C	The facility component is wrapped with two			

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#	Standard	Standard Summary	Yes	No	N/A
		layers of six-mil poly			
12f	MR 4620.3582.3.D	The poly is sealed with tape to provide an airtight seal around the facility component			
12g	MR 4620.3582.3.G	Facility component is labeled with asbestos warning labels			

13. Abatement for Demolition by Destruction to the Ground

#	Standard	Standard Summary	Yes	No	N/A
13a	MR 4620.3585.1.A	Facility is demolished within 24 hours of completion of asbestos-related work			
13b	MR 4620.3585.1.B	Facility is secured to prevent access after asbestos related work			
13c	MR 4620.3585.2	Work area is pre-cleaned according to 4620.3566			
13d	MR 4620.3585.2	Critical barriers are installed according to 4620.3567			
13c	MR 4620.3585.2	Warning signs posted according to 4620.3568(5)			
13d	MR 4620.3585.2	Decontamination is established according to 4620.3569			
13e	MR 4620.3585.2	HEPA-filtered ventilation is established according to 4620.3570			
13f	MR 4620.3585.2	ACM is removed according 4620.3571			
13g	MR 4620.3585.2	Abatement is completed according to 4620.3575			
13h	MR 4620.3585.2	Waste is contained according to 4620.3575.9			
13i	MR 4620.3585.3	Facility is secured to prevent access after asbestos related work			
13j	MR 4620.3585.5.A	Asbestos warning signs are posted			
13k	MR 4620.3585.5.B	Notification is submitted			
13l	MR 4620.3585.5.C	MDH licensed contractor is used to remove ACM			
13m	MR 4620.3585.5.D	MDH certified individuals are used to remove ACM			

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14. Indoor Air Monitoring

#	Standard	Standard Summary	Yes	No	N/A
14a	MR 4620.3592.2	Indoor air monitoring has been conducted outside of the containment during all asbestos-related work			
14b	MR 4620.3592.2.A	Two air samples are collected simultaneously during every five hours asbestos-related work is occurring			
14c	MR 4620.3592.2.B	One sample is collected by the entrance of the decontamination unit			
14d	MR 4620.3592.2.B	One sample is collected in a location in order to detect failures in the containment			
14e	MR 4620.3592.2.C	Sample collection is performed within ten feet of the containment			

15. Elevated Fiber Counts outside the Containment

#	Standard	Standard Summary	Yes	No	N/A
15a	MR 4620.3592.3.A	The occupied area next to the asbestos work area has been evacuated			
15b	MR 4620.3592.3.B.1	Containment barriers are inspected and repaired			
15c	MR 4620.3592.3.B.2	The negative pressure is in compliance with part 4620.3570			
15d	MR 4620.3592.3.B.3	Adjacent areas are cleaned using HEPA-filter equipped vacuum cleaning, wet wiping, or both			
15e	MR 4620.3592.3.B.4	Clearance sampling is conducted			
15f	MR 4620.3592.3.B.5	Sample analysis indicates that the fiber concentration did not exceed the indoor air standard			
15g	MR 4620.3592.4	Evacuation of the occupied areas was delayed			
15h	MR 4620.3592.4.A	The air samples with elevated fiber concentrations are analyzed using TEM			
15i	MR 4620.3592.4.B	If the air quality exceeds 0.01f/cc, the occupied area is evacuated and the area is cleaned and clearance sampling is conducted			

16. Glove Bag/Mini-Containment Air Sampling

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#	Standard	Standard Summary	Yes	No	N/A
16a	MR 4620.3592.5.A	Two air samples are collected simultaneously from the start of ACM disturbance until the glove bag or mini- containments are removed			
16b	MR 4620.3592.5.B	Indoor air samples are collected within ten feet of the glove bag or mini-containments			
16c	MR 4620.3592.5.D	Glove bag or mini containment work area was not reoccupied until air samples indicate a fiber level below the indoor air standard			

17. Glove Bag/Mini-Containment Overloaded Air Samples

#	Standard	Standard Summary	Yes	No	N/A
17a	MR 4620.3592.5.E.1	The area is cleaned and inspected			
17b	MR 4620.3592.5.E.2	Two air samples are collected within ten feet of the glove bag or mini-containment operation			
17c	MR 4620.3592.5.F.1	When elevated fiber concentrations are suspected to be from non-asbestos dust, the work area is not occupied until the samples are analyzed by TEM			
17d	MR 4620.3592.5.F.2	If TEM results show a concentration >0.01f/cc or overloading, the work area is evacuated, cleaned, inspected, and two air samples are collected			

18. Clearance Air Sampling

#	Standard	Standard Summary	Yes	No	N/A
18a	MR 4620.3594.1	Clearance air sampling is performed to ensure that fiber levels are $\leq 0.01f/cc$			
18b	MR 4620.3594.1.A.1	The containment area is not reoccupied until all five clearance air samples are $\leq 0.01f/cc$			
18c	MR 4620.3594.1.A.2	For residential, three clearance air samples are $\leq 0.01f/cc$			
18d	MR 4620.3594.1.B	If any clearance air sample >0.01f/cc, the containment area is cleaned and inspected and clearance air sampling is repeated			
18e	MR 4620.3594.2	The containment is thoroughly cleaned, dried completely, and passed a visual inspection before clearance air sampling is performed			
18f	MR 4620.3594.2.A	The critical barriers are in place			

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#	Standard	Standard Summary	Yes	No	N/A
18g	MR 4620.3594.2.B	The decontamination unit is in place and is operational			
18h	MR 4620.3594.2.C	Negative pressure is maintained until analysis of clearance air samples has been completed			
18i	MR 4620.3594.2.F.1	A one horsepower leaf blower was used to agitate the air before clearance sampling			
18j	MR 4620.3594.2.F.2	Stationary fans are used to continuously agitate the air during clearance			
18k	MR 4620.3594.2.G	Leaf blower, fans and pumps are cleaned before removal from containment			

19. General Requirements for Air Sample Collection

#	Standard	Standard Summary	Yes	No	N/A
19a	MR 4620.3596.A.1	Air sample collection is conducted by an individual who is an asbestos worker or asbestos supervisor and has completed a Minnesota asbestos air sampling course			
19b	MR 4620.3596.A.3	Air sample collection is conducted by an individual who has completed the NIOSH 582 course before July 1, 1996			
19c	MR 4620.3596.B	Air sample cassettes are submitted for analysis on the day of collection			
19d	MR 4620.3596.C	Air sample results are made available orally or in writing before disassembly of the containment			

20. Phase Contract Microscopy

#	Standard	Standard Summary	Yes	No	N/A
20a	MR 4620.3597.3.B	A volume of 2,000 liters is drawn through the sample			
20b	MR 4620.3597.3.C.1	If <2,000 liters are not collected, more fields have been counted than the 100 microscope field maximum			

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