

**Attachment 5: Asia Lymph All Job Modules (OccIDEAS)\***

OMB #: 0925-0654
Expiration date: 10/31/2015 Public reporting for this collection of information is estimated to average 35 minutes per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. <b>An agency may not conduct or sponsor, and a person is not required to respond to, a collection of information unless it displays a currently valid OMB control number.</b> Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to: NIH, Project Clearance Branch, 6705 Rockledge Drive, MSC 7974, Bethesda, MD 20892-7974, ATTN: PRA (0925-0654). Do not return the completed form to this address.

Note – We estimate that 50% of subjects will not be asked any of these modules and that 50% of subjects will be asked 1-3 of these modules. We estimate that 15 minutes will be needed on average to complete this portion of the interview.

<b>CHEMIST (CH) MODULE</b>		
1	In this job, did you work in a lab? Yes No DK	[go to 2] [go to 2]
1.1	How many hours per week did you do work in this area? < 2 2 - 9 10 - 19 20 or more DK	
2	Did you work in the production area of a plant? Yes No DK	[go to 3] [go to 3]
2.1	How many hours per week did you do work in this area? < 2 2 - 9 10 - 19 20 or more DK	
2.2	Did you collect process samples in a production area? Yes No DK	

\*Note: The numbering in this document may not match the tablet exactly.

3	Did you use chlorinated solvents?  Yes No DK	   [go to 4] [go to 4]
3.1	How many hours per week did you do this?  < 2 2 - 9 10 - 19 20 or more DK	
3.2	What chlorinated solvents did you use? Did you use...? (allow multiple)  Trichloroethylene Dichloromethane Other chlorinated solvent DK	
4	Did you use benzene?  Yes No DK	   [go to 5] [go to 5]
4.1	How many hours per week did you do this?  < 2 2 - 9 10 - 19 20 or more DK	
5	Did you use any other aromatic compounds, such as xylene or toluene?  Yes No DK	   [go to 6] [go to 6]
5.1	How many hours per week did you do this?  < 2 2 - 9 10 - 19 20 or more DK	
6	Did you use formaldehyde or a formaldehyde solution?  Yes No DK	   [go to 7] [go to 7]

6.1	How many hours per week did you do this? < 2 2 - 9 10 - 19 20 or more DK	
7	Did you use dyes? Yes No DK	[go to 8] [go to 8]
7.1	How many hours per week did you do this? < 2 2 - 9 10 - 19 20 or more DK	
7.2	Were these dyes usually in solid or liquid form? Solid Liquid Both DK	[go to 8] [go to 7.2.1] [go to 8] [go to 8]
7.2.1	What did these dyes contain? Did they contain...? (allow multiple) Benzene Toluene or xylene Trichloroethylene Formaldehyde Something else DK	
8	Were your hands ever immersed in a solvent, a solvent-based product, or fuel? Yes No DK	
9	Did you wear gloves while using solvents or solvent-based products? Yes No Not applicable - did not use solvents DK	
10	Did you clean your hands with a solvent, a solvent-based product or with fuel, such as gasoline? Yes No	

		DK	
	<b>JANITOR (JA) MODULE</b>		
1	In this job, did you ever clean office areas?	Yes No DK	[go to 2] [go to 2]
1.1	How many hours per week did you do this?	< 2 2 - 9 10 - 19 20 or more DK	
2	In this job, did you ever polish furniture with liquid cleaning chemicals?	Yes No DK	[go to 3] [go to 3]
2.1	How many hours per week did you do this?	< 2 2 - 9 10 - 19 20 or more DK	
3	In this job, did you ever strip floors with liquid cleaning chemicals?	Yes No DK	[go to 4] [go to 4]
3.1	How many hours per week did you do this?	< 2 2 - 9 10 - 19 20 or more DK	
4	In this job, did you ever clean in a production area of the plant?	Yes No DK	[go to 5] [go to 5]
4.1	How many hours per week did you do this?	< 2 2 - 9 10 - 19 20 or more DK	

5	<p>Did you ever work in an area where materials containing solvents, such as paints, varnishes, glues, or degreasers were used?</p> <p>Yes No DK</p>	<p>[go to 6] [go to 6]</p>
5.1	<p>How many hours per week did other workers perform this task while you were working in this area?</p> <p>&lt; 2 2 - 9 10 - 19 20 or more DK</p>	
6	<p>In this job, did you ever repair or maintain equipment or property??</p> <p>Yes No DK</p>	<p>[go to 7] [go to 7]</p>
6.1	<p>How many hours per week did you do this?</p> <p>&lt; 2 2 - 9 10 - 19 20 or more DK</p>	
6.2	<p>In this job, did you ever clean or degrease metal or plastic parts with chemicals?</p> <p>Yes No DK</p>	<p>[go to 6.3] [go to 6.3]</p>
6.2.1	<p>How many hours per week did you do this?</p> <p>&lt; 2 2-9 10-19 20 or more DK</p>	
6.2.2	<p>When you cleaned metal or plastic parts, what did you use? Did you use...? (allow multiple)</p> <p>Trichloroethylene Gasoline or other fuels Benzene, toluene, or xylene Mineral spirits, stoddard solvent, turpentine or naphtha Paint thinner Any other solvent Any other degreaser DK</p>	

6.2.3	<p>Were the chemicals at room temperature or were they heated in a tank, vat, or vapor degreaser? (allow multiple)</p> <p>Room temperature  Heated in vapor degreaser  Heated in vat or tank  Other  DK</p>	
6.2.4	<p>How did you clean the parts? Did you ...? (allow multiple)</p> <p>Wipe with rag/cloth  Wipe with brush  Put in basket and manually dipped into tank  Put in basket and dipped into tank using automated system  Put into tank or bucket with hands  Other  DK</p>	
6.2.5	<p>Was there a local exhaust system to remove the dust, fumes or vapors that was produced?</p> <p>Yes  No  DK</p>	
6.3	<p>Did other workers clean or degrease parts in the area where you worked?</p> <p>Yes  No  DK</p>	<p>[go to 6.4]  [go to 6.4]</p>
6.3.1	<p>How many hours per week did other workers perform this task while you were working in this area?</p> <p>&lt; 2  2-9  10-19  20 or more  DK</p>	
6.4	<p>In this job, did you ever handle or pump fuel?</p> <p>Yes  No  DK</p>	<p>[go to 7]  [go to 7]</p>
6.4.1	<p>How many hours per week did you do this?</p> <p>&lt; 2  2-9  10-19  20 or more  DK</p>	

7	<p>Were your hands ever immersed in a solvent, a solvent-based product, or fuel?</p> <p style="text-align: center;">Yes No DK</p>	
8	<p>Did you wear gloves while using solvents or solvent-based products?</p> <p style="text-align: center;">Yes No Not applicable - did not use solvents DK</p>	
9	<p>Did you clean your hands with a solvent, a solvent-based product or with fuel, such as gasoline?</p> <p style="text-align: center;">Yes No DK</p>	

<b>HEALTH PROFESSION (HP) MODULE</b>		
1	In this job, did you work in a room where instruments or other equipment was being sterilized?  Yes No DK	  [go to 2] [go to 2]
1.1	How many hours per week did you do work in this area?  < 2 2 - 9 10 - 19 20 or more DK	
1.2	How were these instruments and equipment sterilized? (allow multiple)  In a solution In an autoclave or sterilizing unit Something else DK	
1.3	What sterilizing agent was usually used in the solution? (allow multiple)  Formaldehyde PhisoHex Something else DK	
2	In this job, did you use disinfectants or antiseptics?  Yes No DK	  [go to 3] [go to 3]
2.1	What disinfectant or antiseptic did you use? Did you use...? (allow multiple)  Formaldehyde PhisoHex Something else DK	
3	In this job, did you clean dialysis machines?  Yes No DK	  [go to 4] [go to 4]
3.1	How many hours per week did you do this?  < 2 2 - 9 10 - 19 20 or more DK	



4	In this job, did you clean endoscopes? Yes No DK	[go to 5] [go to 5]
4.1	How many hours per week did you do this? < 2 2 - 9 10 - 19 20 or more DK	
5	In this job, did you work in a lab? Yes No DK	[go to 6] [go to 6]
5.1	How many hours per week did you do this? < 2 2 - 9 10 - 19 20 or more DK	
5.2	Did you use dyes? Yes No DK	[go to 5.3] [go to 5.3]
5.2.1	How many hours per week did you do this? < 2 2 - 9 10 - 19 20 or more DK	
5.3	Did you use benzene? Yes No DK	[go to 5.4] [go to 5.4]
5.3.1	How many hours per week did you do this? < 2 2 - 9 10 - 19 20 or more DK	

5.4	Did you use trichloroethylene? Yes No DK	[go to 5.5] [go to 5.5]
5.4.1	How many hours per week did you do this? < 2 2 - 9 10 - 19 20 or more DK	
5.5	Did you use any formaldehyde or formalin? Yes No DK	[go to 6] [go to 6]
5.5.1	How many hours per week did you do this? < 2 2 - 9 10 - 19 20 or more DK	
6	In this job, did you ever repair or maintain equipment or property? Yes No DK	[go to 7] [go to 7]
6.1	In this job, did you ever clean or degrease metal or plastic parts with chemicals? Yes No DK	[go to 6.2] [go to 6.2]
6.1.1	How many hours per week did you do this? < 2 2 - 9 10 - 19 20 or more DK	
6.1.2	When you cleaned metal or plastic parts, what did you use? Did you use...? (allow multiple) Trichloroethylene Gasoline or other fuels Benzene, toluene, or xylene Mineral spirits, stoddard solvent, turpentine or naphtha Paint thinner Any other solvent Any other degreaser DK	

6.1.3	<p>Were the chemicals at room temperature or were they heated in a tank, vat, or vapor degreaser? (allow multiple)</p> <p>Room temperature  Heated in vapor degreaser  Heated in vat or tank  Other  DK</p>	
6.1.4	<p>How did you clean the parts? Did you ...? (allow multiple)</p> <p>Wipe with rag/cloth  Wipe with brush  Put in basket and manually dipped into tank  Put in basket and dipped into tank using automated system  Put into tank or bucket with hands  Other  DK</p>	
6.1.5	<p>Was there a local exhaust system to remove the dust, fumes or vapors that was produced?</p> <p>Yes  No  DK</p>	
6.2	<p>Did other workers clean or degrease parts in the area where you worked?</p> <p>Yes  No  DK</p>	<p>[go to 6.3]  [go to 6.3]</p>
6.2.1	<p>How many hours per week did other workers perform this task while you were working in this area?</p> <p>&lt; 2  2-9  10-19  20 or more  DK</p>	
6.3	<p>In this job, did you ever use paint?</p> <p>Yes  No  DK</p>	<p>[go to 6.4]  [go to 6.4]</p>
6.3.1	<p>How many hours per week did you do this?</p> <p>&lt; 2  2 - 9  10 - 19  20 or more  DK</p>	

6.3.2	<p>What did you usually use to apply the paint? (allow multiple)</p> <p>Brush  Roller  Electrostatic gun  Spray gun  Dip item into paint  Other  DK</p>	
6.3.3	<p>Did you paint indoors or inside a ship?</p> <p>Yes  No  DK</p>	<p>[go to 6.3.4]  [go to 6.3.4]</p>
6.3.3.1	<p>How many hours per week did you do this?</p> <p>&lt; 2  2 - 9  10 - 19  20 or more  DK</p>	
6.3.3.2	<p>Was there a local exhaust system to remove the dust, fumes or vapors that was produced?</p> <p>Yes  No  DK</p>	
6.3.3.3	<p>Did you paint in a production area of a manufacturing plant?</p> <p>Yes  No  DK</p>	<p>[go to 6.3.4]  [go to 6.3.4]</p>
6.3.3.3.1	<p>How many hours per week did you do this?</p> <p>&lt; 2  2 - 9  10 - 19  20 or more  DK</p>	
6.3.4	<p>Did you paint outdoors?</p> <p>Yes  No  DK</p>	<p>[go to 6.4]  [go to 6.4]</p>
6.3.4.1	<p>How many hours per week did you do this?</p> <p>&lt; 2  2 - 9  10 - 19  20 or more  DK</p>	

6.4	<p>Did other workers use paints in the area where you worked?</p> <p>Yes No DK</p>	<p>[go to 6.5] [go to 6.5]</p>
6.4.1	<p>How many hours per week did other workers perform this task while you were working in this area?</p> <p>&lt; 2 2-9 10-19 20 or more DK</p>	
6.5	<p>In this job, did you ever strip paint from metal or wood objects?</p> <p>Yes, No DK</p>	<p>[go to 6.6] [go to 6.6]</p>
6.5.1	<p>How many hours per week did you do this?</p> <p>&lt; 2 2 - 9 10 - 19 20 or more DK</p>	
6.5.2	<p>To strip paint, what did you use? Did you use...? (allow multiple)</p> <p>Methylene chloride Acids, alkalis, or caustic solutions? Any other chemical Something else, such as a heat gun or scraper DK</p>	
6.6	<p>Did other workers strip paint from metal or wood objects in the area where you worked?</p> <p>Yes No DK</p>	<p>[go to 6.7] [go to 6.7]</p>
6.6.1	<p>How many hours per week did other workers perform this task while you were working in this area?</p> <p>&lt; 2 2-9 10-19 20 or more DK</p>	
6.7	<p>In this job, did you ever use glues or adhesives?</p> <p>Yes No DK</p>	<p>[go to 6.8] [go to 6.8]</p>



6.7.6	<p>Did you use contact glues or adhesives where you apply the glue to both pieces being glued, let it dry for a short time, and then join the two pieces together?</p> <p>Yes No DK</p>	<p>[go to 6.7.7] [go to 6.7.7]</p>
6.7.6.1	<p>How many hours per week did you do this?</p> <p>&lt; 2 2 - 9 10 - 19 20 or more DK</p>	
6.7.7	<p>Did you use glues or adhesives that require mixing two parts of the glue together before applying? (epoxy resins)</p> <p>Yes No DK</p>	<p>[go to 6.7.8] [go to 6.7.8]</p>
6.7.7.1	<p>How many hours per week did you do this?</p> <p>&lt; 2 2 - 9 10 - 19 20 or more DK</p>	
6.7.8	<p>Did you use urea, phenol or melamine-based glues or adhesives?</p> <p>Yes No DK</p>	<p>[go to 6.8] [go to 6.8]</p>
6.7.8.1	<p>How many hours per week did you do this?</p> <p>&lt; 2 2 - 9 10 - 19 20 or more DK</p>	
6.8	<p>Did other workers use glues or adhesives in the area where you worked?</p> <p>Yes No DK</p>	<p>[go to 6.9] [go to 6.9]</p>
6.8.1	<p>How many hours per week did other workers perform this task while you were working in this area?</p> <p>&lt; 2 2-9 10-19 20 or more DK</p>	

6.9	In this job, did you ever handle or use particle board, plywood, or veneered wood?  Yes No DK	  [go to 6.10] [go to 6.10]
6.9.1	How many hours per week did you do this?  < 2 2 - 9 10 - 19 20 or more DK	
6.10	Did other workers work with particle board, plywood, or veneered wood in the area where you worked?  Yes No DK	  [go to 6.11] [go to 6.11]
6.10.1	How many hours per week did other workers perform this task while you were working in this area?  < 2 2-9 10-19 20 or more DK	
6.11	In this job, did you ever handle or pump fuel?  Yes No DK	  [go to 7] [go to 7]
6.11.1	How many hours per week did you do this?  < 2 2 - 9 10 - 19 20 or more DK	
7	Were your hands ever immersed in a solvent, a solvent-based product, or fuel?  Yes No DK	
8	Did you wear gloves while using solvents or solvent-based products?  Yes No Not applicable - did not use solvents DK	



9	Did you clean your hands with a solvent, a solvent-based product or with fuel, such as gasoline?  Yes No DK	
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<b>CHEMICAL INDUSTRY (CHI) MODULE</b>		
1	What did the employer make? (allow multiple) Paints Pesticides or fertilizers Drugs or pharmaceuticals Dyes or pigments Other chemicals DK	 [go to 1.1-1.2] [go to 1.3-1.4] [go to 2] [go to 2] [go to 2]
1.1	Did the company make fumigants? Yes No DK	
1.2	Did the company make insecticides? Yes No DK	 [go to 2] [go to 2] [go to 2]
1.3	Did the company make vaccines? Yes No DK	
1.4	Did the company make antiseptics, germicides or antibacterials? Yes No DK	
2	How would you best describe your job at this employer? Production (make, assemble, or process materials or parts into products or finished goods) Maintenance or Utilities (maintain or repair equipment, tools, property or utilities) Quality Control, Environmental Control, Engineering or Research Shipping, Receiving or Storage Administration DK	 [go to 2.1-2.6] [go to 2.7-2.12] [go to 2.13-2.14] [go to 2.15-2.18] [go to 3] [go to 3]
2.1	Was the part of the plant where you worked making chemicals primarily indoors or outdoors? Indoors Outdoors Both DK	
2.2	Did you spend time in a control room? Yes No DK	 [go to 2.2.1]

2.2.1	How many hours per week did you do work in this area?  < 2 2 - 9 10 - 19 20 or more DK	
2.3	Did you spend time in any production areas (other than a control room)?  Yes No DK	[to go 2.3.1]
2.3.1	How many hours per week did you do work in this area?  < 2 2 - 9 10 - 19 20 or more DK	
2.4	How would you describe most of the equipment that you ran or that was in the area where you worked?  Closed (meaning that the equipment had covers to them and pipes were used to transport most of the materials) Open (no covers on the equipment and pipes were not used) Both DK	
2.5	Did you add chemicals by any means (hand, scoop, shovel, or by emptying bags, drums, or other containers) into the equipment?  Yes No DK	[go to 2.5.1]
2.5.1	[Ask Vent Mini-module]	
2.6	Did you pack or package chemicals?  Yes No DK	[go to 2.6.1-2.6.2] [go to 3] [go to 3]
2.6.1	How many hours per week did you do this?  < 2 2 - 9 10 - 19 20 or more DK	

2.6.2	[Vent mini-module]	[go to 3]
2.7	[Degrease Mini-Module]	
2.8	[Paint Mini-Module]	
2.9	[Strip Mini-Module]	
2.10	[Glue Mini-Module]	
2.11	[Board Mini-Module]	
2.12	[Fuel Mini-Module]	[go to 3]
2.13	Did you take samples from the process or production line for testing purposes?  Yes No DK	[go to 2.13.1]
2.13.1	How many hours per week did you do this?  < 2 2 - 9 10 - 19 20 or more DK	
2.14	Did you perform chemical or physical tests on process or product samples?  Yes No DK	[go to 2.14.1] [go to 3] [go to 3]
2.14.1	How many hours per week did you do this?  < 2 2 - 9 10 - 19 20 or more DK	[go to 3] [go to 3] [go to 3] [go to 3] [go to 3]
2.15	[Paint Mini-Module]	
2.16	[Glue Mini-Module]	
2.17	[Board Mini-Module]	
2.18	[Fuel Mini-Module]	
3	[Hands mini-module]	

<b>DRY CLEANING TEXTILE INDUSTRY MODULE</b>		
1	In this job, what best describes your work location? A cleaning service where fabric and cloth items were washed or dry cleaned A mill, factory, workshop or warehouse where yarn, textiles and clothing were made, packaged or shipped None of the above	[go to SECTION A]  [go to SECTION B]  [go to SECTION D - SECTION J]
SECTION A [aDLI]		
A.1	Did your employer wash clothes on the premises? Yes No DK	
A.2	Did your employer dry clean on the premises? Yes No DK	[go to A.2.1-A.2.3]
A.2.1	Did you ever transfer dry cleaned fabric items from the washer to the dryer (please say no if the machines both washed and dried the fabric items in the same machine)? Yes No DK	[go to A.2.1.1]
A.2.1.1	How many hours per week did you do this? < 2 2 - 9 10 - 19 20 or more DK	
A.2.2	Did you ever transfer dry cleaning fluid from a storage container to a dry cleaning machine, using a bucket or other type of container? (dry cleaning fluid is the chemical used to dry clean fabric items) Yes No DK	[go to A.2.2.1]
A.2.2.1	How many hours per week did you do this? < 2 2 - 9 10 - 19 20 or more DK	
A.2.3	To dry clean, what chemicals were used? Did you use...? (allow	

	<p>multiple)</p> <p>Perchloroethylene (perc) or tetrachloroethylene (tetra)?</p> <p>Trichloroethylene (TCE)?</p> <p>Trichloroethane (TCA)?</p> <p>Carbon tetrachloride?</p> <p>Stoddard solvent?</p> <p>Gasoline?</p> <p>Something else?</p> <p>DK</p>	
A.3	<p>Did you ever spot clean fabric items?</p> <p>Yes</p> <p>No</p> <p>DK</p>	[go to A.3.1-A.3.2]
A.3.1	<p>About how many items did you spot clean?</p> <p>15 items/week or less</p> <p>15 to 100 items/week</p> <p>more than 100 items/week</p> <p>DK</p>	
A.3.2	<p>To spot clean, what chemicals did you use? Did you use...? (allow multiple)</p> <p>Perchloroethylene (perc) or tetrachloroethylene (tetra)?</p> <p>Trichloroethylene (TCE)?</p> <p>Trichloroethane (TCA)?</p> <p>Carbon tetrachloride?</p> <p>Stoddard solvent?</p> <p>A remover formulated to remove paint, grease or oils?</p> <p>Gasoline?</p> <p>Something else?</p> <p>DK</p>	
A.4	<p>In this job, did you ever repair or maintain equipment or property?</p> <p>Yes</p> <p>No</p> <p>DK</p>	[go to A.4.1-A.4.7]
A.4.1	<p>Did you ever repair the dry cleaning equipment or maintain the dry cleaning fluid?</p> <p>Yes</p> <p>No</p> <p>DK</p>	[go to A.4.1.1]
A.4.1.1	<p>How many hours per week did you do this?</p> <p>&lt; 2</p> <p>2 - 9</p> <p>10 - 19</p> <p>20 or more</p> <p>DK</p>	

A.4.2	[Degrease Mini-Module]	
A.4.3	[Paint Mini-Module]	
A.4.4	[Strip Mini-Module]	
A.4.5	[Glue Mini-Module]	
A.4.6	[Board Mini-Module]	
A.4.7	[Fuel Mini-Module]	
A.5	[Hands mini-module]	[END]
SECTION B TEXTILE INDUSTRY MODULE		
B.1	Was fabric, clothing or other cloth products, or both made at your employer?  Fabric Clothing or other cloth products Both Something else DK	
B.2	Was the product made of leather, fur or hair?  Yes No DK	[go to SECTION C] [go to SECTION B.2.2] [go to SECTION B.2.3]
SECTION C LEATHER INDUSTRY MINI MODULE		
C.1	Did your employer make leather, make a leather product, or do both?  Make leather Make leather product Both DK	
C.2	What color was the leather? (allow multiple)  Brown Pale cream or white Other DK	
C.3	How would you best describe your job at this employer? Production (make, assemble, or process materials or parts into products or finished goods) Maintenance or Utilities (maintain or repair equipment, tools, property or utilities) Quality Control, Environmental Control, Engineering or Research Shipping, Receiving or Storage Administration DK	[go to C.3.1 - C.3.2] [go to C.3.3-C.3.8] [go to C.4] [go to C.3.9-C.3.12] [go to C.4] [go to C.4]
C.3.1	Was the leather or leather product from animal hides or skins, or was the leather synthetic or man-made?	

		Animal hide Synthetic or man-made Both Something else DK	[go to C.3.1.1-C.3.1.3] [go to C.3.1.4-C.3.1.6] [go to C.3.1.7 - C.3.1.12] [go to C.4] [go to C.4]
C.3.1.1	Was the leather already tanned or prepared, or did hides or skin come into the plant that had to have the hair and flesh removed and tanning done to the hides and skins? Already tanned Hair still on/needed tanning Other DK		[go to C.3.1.1.1-C.3.1.1.3]
C.3.1.1.1	Did you work in the area where the hide or skin was prepared for tanning ? Yes No DK		[go to C.3.1.1.1.1]
C.3.1.1.1.1	How many hours per week did you do work in this area? < 2 2 - 9 10 - 19 20 or more DK		
C.3.1.1.2	Did you work in the area where the hides and skins were tanned? Yes No DK		[go to C.3.1.1.2.1]
C.3.1.1.2.1	How many hours per week did you do work in this area? < 2 2 - 9 10 - 19 20 or more DK		
C.3.1.1.3	Did you work in the area where the tanned leather was stuffed or fat liquored? Yes No DK		[go to C3.1.1.3.1]
C.3.1.1.3.1	Did you apply the chemicals to stuff or fat liquor the leather? Yes No DK		[go to C.3.1.1.3.1.1-C.3.1.1.3.1.2]



C.3.1.1.3.1.1	How many hours per week did you do this? < 2 2 - 9 10 - 19 20 or more DK	
C.3.1.1.3.1.2	What chemicals did you use? (allow multiple) Oils TCE or trichloroethylene Perchloroethylene (perc) or tetrachloroethylene (tetra) Some other chemicals DK	
C.3.1.2	Did you apply a chemical to the leather? Yes No DK	[go to C.3.1.2.1]
C.3.1.2.1	How many hours per week did you do this? < 2 2 - 9 10 - 19 20 or more DK	
C.3.1.3	Did you work in the area where the tanned leather was dried, set out, stretched and softened? Yes No DK	[go to C.3.1.3.1]
C.3.1.3.1	How many hours per week did you do work in this area? < 2 2 - 9 10 - 19 20 or more DK	
C.3.1.4	Did you work in the area where chemicals were mixed to make a leather-like resin or plastic? Yes No DK	[go to C.3.1.4.1]
C.3.1.4.1	How many hours per week did you do work in this area? < 2 2 - 9 10 - 19 20 or more DK	

C.3.1.5	Did you work in the area where chemicals were heated to make a leather-like resin or plastic?  Yes No DK	[go to C.3.1.5.1]
C.3.1.5.1	How many hours per week did you do work in this area?  < 2 2 - 9 10 - 19 20 or more DK	
C.3.1.6	Did you work in the area where chemicals were extruded to make a leather-like resin or plastic?  Yes No DK	[go to C.3.1.6.1]
C.3.1.6.1	How many hours per week did you do work in this area?  < 2 2 - 9 10 - 19 20 or more DK	
C.3.1.7	Was the leather already tanned or prepared, or did hides or skin come into the plant that had to have the hair and flesh removed and tanning done to the hides and skins?  Already tanned Hair still on/needed tanning Other DK	[go to C.3.1.7.1-3.1.7.3]
C.3.1.7.1	Did you work in the area where the hide or skin was prepared for tanning?  Yes No DK	[go to C.3.1.7.1.1]
C.3.1.7.1.1	How many hours per week did you do work in this area?  < 2 2 - 9 10 - 19 20 or more DK	
C.3.1.7.2	Did you work in the area where the hides and skins were tanned?  Yes No	[go to C.3.1.7.2.1]

		DK	
C.3.1.7.2.1	How many hours per week did you do work in this area?	< 2 2 - 9 10 - 19 20 or more DK	
C.3.1.7.3	Did you work in the area where the tanned leather was stuffed or fat liquored?	Yes No DK	[go to C.3.1.7.3.1]
C.3.1.7.3.1	Did you apply the chemicals to stuff or fat liquor the leather?	Yes No DK	[go to C.3.1.7.3.1.1- C.3.1.7.3.1.2]
C.3.1.7.3.1.1	How many hours per week did you do this?	< 2 2 - 9 10 - 19 20 or more DK	
C.3.1.7.3.1.2	What chemicals did you use? (allow multiple)	Oils TCE or trichloroethylene Perchloroethylene (perc) or tetrachloroethylene (tetra) Some other chemicals DK	
C.3.1.8	Did you apply a chemical to the leather?	Yes No DK	[go to C.3.1.8.1]
C.3.1.8.1	How many hours per week did you do this?	< 2 2 - 9 10 - 19 20 or more DK	
C.3.1.9	Did you work in the area where the tanned leather was dried, set out, stretched and softened?	Yes No DK	[go to C.3.1.9.1]

C.3.1.9.1	How many hours per week did you do work in this area?  <div style="text-align: center;"> <p>&lt; 2</p> <p>2 - 9</p> <p>10 - 19</p> <p>20 or more</p> <p>DK</p> </div>	
C.3.1.10	Did you work in the area where chemicals were mixed to make a leather-like resin or plastic?  <div style="text-align: center;"> <p>Yes</p> <p>No</p> <p>DK</p> </div>	[go to C.3.1.10.1]
C.3.1.10.1	How many hours per week did you do work in this area?  <div style="text-align: center;"> <p>&lt; 2</p> <p>2 - 9</p> <p>10 - 19</p> <p>20 or more</p> <p>DK</p> </div>	
C.3.1.11	Did you work in the area where chemicals were heated to make a leather-like resin or plastic?  <div style="text-align: center;"> <p>Yes</p> <p>No</p> <p>DK</p> </div>	[go to C.3.1.11.1]
C.3.1.11.1	How many hours per week did you do work in this area?  <div style="text-align: center;"> <p>&lt; 2</p> <p>2 - 9</p> <p>10 - 19</p> <p>20 or more</p> <p>DK</p> </div>	
C.3.1.12	Did you work in the area where chemicals were extruded to make a leather-like resin or plastic?  <div style="text-align: center;"> <p>Yes</p> <p>No</p> <p>DK</p> </div>	[go to C.3.1.12.1]
C.3.1.12.1	How many hours per week did you do work in this area?  <div style="text-align: center;"> <p>&lt; 2</p> <p>2 - 9</p> <p>10 - 19</p> <p>20 or more</p> <p>DK</p> </div>	
C.3.2	Did you work in the area where the leather pieces were glued together or glued to metal or plastic pieces?  <div style="text-align: center;"> <p>Yes</p> <p>No</p> <p>DK</p> </div>	[go to C.3.2.1 - C.3.2.2]

C.3.2.1	How many hours per week did you do work in this area?  <div style="text-align: center;"> <p>&lt; 2</p> <p>2 - 9</p> <p>10 - 19</p> <p>20 or more</p> <p>DK</p> </div>	
C.3.2.2	Did you do the gluing?  <div style="text-align: center;"> <p>Yes</p> <p>No</p> <p>DK</p> </div>	[go to C.3.2.2.1]
C.3.2.2.1	How many hours per week did you do this?  <div style="text-align: center;"> <p>&lt; 2</p> <p>2 - 9</p> <p>10 - 19</p> <p>20 or more</p> <p>DK</p> </div>	[go to C.4] [go to C.4] [go to C.4] [go to C.4] [go to C.4]
C.3.3	[Degrease Mini-Module]	
C.3.4	[Paint Mini-Module]	
C.3.5	[Strip Mini-Module]	
C.3.6	[Glue Mini-Module]	
C.3.7	[Board Mini-Module]	
C.3.8	[Fuel Mini-Module]	[go to C.4]
C.3.9	[Paint Mini-Module]	
C.3.1	[Glue Mini-Module]	
C.3.11	[Board Mini-Module]	
C.3.12	[Fuel Mini-Module]	
C.4	[Hands mini-module]	[END]
	SECTION B.2.2 CONTINUE TEXTILE INDUSTRY MODULE	
B.2.2	How would you best describe your job at this employer? <div style="text-align: center;"> <p>Production (make, assemble, or process materials or parts into products or finished goods)</p> <p>Maintenance or Utilities (maintain or repair equipment, tools, property or utilities)</p> <p>Quality Control, Environmental Control, Engineering or Research</p> <p>Shipping, Receiving or Storage</p> <p>Administration</p> <p>DK</p> </div>	[go to B.2.2.1 - 2.2.8] [go to B.2.2.9-B.2.2.15] [go to B.2.2.16-B.2.2.17] [go to B.2.2.18-B.2.2.22] [END] [END]
B.2.2.1	What was the product made of ? (allow multiple)  <div style="text-align: center;"> <p>Cotton</p> <p>Wool</p> <p>Man-made or synthetic</p> <p>Something else</p> <p>DK</p> </div>	

B.2.2.2	Did you work in the area where scouring or cleaning was done? Yes No DK	[go to 2.2.2.1-2.2.2.2]
B.2.2.2.1	How many hours per week did you do work in this area? < 2 2 - 9 10 - 19 20 or more DK	
B.2.2.2.2	Was perchloroethylene (perc) or tetrachloroethylene (tetra) used to scour or clean the products? Yes No DK	
B.2.2.3	Did you work in the area where dyeing was done? Yes No DK	[go to B.2.2.3.1]
B.2.2.3.1	How many hours per week did you do work in this area? < 2 2 - 9 10 - 19 20 or more DK	
B.2.2.4	Did you work in the area where printing was done? Yes No DK	[go to B.2.2.4.1]
B.2.2.4.1	How many hours per week did you do work in this area? < 2 2 - 9 10 - 19 20 or more DK	
B.2.2.5	Did you work in the area where trimming, cleaning, drying, or other finishing operations and inspecting of the products was done? Yes No DK	[go to B.2.2.5.1-B.2.2.5.2]

B.2.2.5.1	How many hours per week did you do work in this area?  <p style="text-align: center;"> &lt; 2  2 - 9  10 - 19  20 or more  DK </p>	
B.2.2.5.2	While working in this area, did you spot clean the fabrics or clothing?  <p style="text-align: center;"> Yes  No  DK </p>	[go to B.2.2.2.5.1- B.2.2.2.5.2]
B.2.2.2.5.1	About how many items did you spot clean?  <p style="text-align: center;"> 15 items/week or less  15 to 100 items/week  more than 100 items/week  DK </p>	
B.2.2.2.5.2	To spot clean, what chemicals did you use? Did you use...? (allow multiple) Perchloroethylene (perc) or tetrachloroethylene (tetra)? Trichloroethylene (TCE)? Carbon tetrachloride? Stoddard solvent? A remover formulated to remove paint, grease or oils? Gasoline? Something else? DK	
B.2.2.6	Did you work in the area where fabric was made resistant to wrinkles, flame, stains, soil, shrinkage, water, moths, mildew, or something else?  <p style="text-align: center;"> Yes  No  DK </p>	[go to B.2.2.6.1-B.2.2.6.2]
B.2.2.6.1	How many hours per week did you do work in this area?  <p style="text-align: center;"> &lt; 2  2 - 9  10 - 19  20 or more  DK </p>	
B.2.2.6.2	What type of treatment was being done to the fabric? (allow multiple) Wrinkle resistance or durable or permanent press Flame resistance Stain resistance	

	Soil resistance Shrink resistance Water resistance Moth resistance Mildew resistance Other DK	
B.2.2.7	Did you clean the screens used to transfer color to the fabric?  Yes No DK	[go to B.2.2.7.1]
B.2.2.7.1	What chemicals did you use to do this? (allow multiple) Carbon tetrachloride Trichloroethylene Trichloroethane Chloroform Perchloroethylene (perc) or tetrachloroethylene (tetra) Some other chemical DK	
B.2.2.8	[Hands mini-module]	[END]
B.2.2.9	[Degrease Mini-Module]	
B.2.2.10	[Paint Mini-Module]	
B.2.2.11	[Strip Mini-Module]	
B.2.2.12	[Glue Mini-Module]	
B.2.2.13	[Board Mini-Module]	
B.2.2.14	[Fuel Mini-Module]	
B.2.2.15	[Hands mini-module]	[END]
B.2.2.16	Did you take samples from the process or production line for testing purposes?  Yes No DK	[go to B.2.2.16.1]
B.2.2.16.1	How many hours per week did you do this?  < 2 2 - 9 10 - 19 20 or more DK	
B.2.2.17	Did you perform chemical or physical tests on process or product samples?  Yes No DK	[go to B.2.2.17.1] [END] [END]



B.2.2.17.1	How many hours per week did you do this?  <div style="text-align: center;"> <p>&lt; 2</p> <p>2 - 9</p> <p>10 - 19</p> <p>20 or more</p> <p>DK</p> </div>	[END] [END] [END] [END] [END]
B.2.2.18	[Paint Mini-Module]	
B.2.2.19	[Glue Mini-Module]	
B.2.2.20	[Board Mini-Module]	
B.2.2.21	[Fuel Mini-Module]	
B.2.2.22	[Hands mini-module]	[END]
SECTION B.2.3 CONTINUE TEXTILE INDUSTRY MODULE		
B.2.3	How would you best describe your job at this employer? <div style="text-align: center;"> <p>Production (make, assemble, or process materials or parts into products or finished goods)</p> <p>Maintenance or Utilities (maintain or repair equipment, tools, property or utilities)</p> <p>Quality Control, Environmental Control, Engineering or Research</p> <p>Shipping, Receiving or Storage</p> <p>Administration</p> <p>DK</p> </div>	[go to B.2.3.1 - B.2.3.8] [go to B.2.3.9-B.2.3.15] [go to B.2.3.16-B.2.3.17] [go to B.2.3.18-B.2.3.22] [END] [END]
B.2.3.1	What was the product made of ? (allow multiple)  <div style="text-align: center;"> <p>Cotton</p> <p>Wool</p> <p>Man-made or synthetic</p> <p>Something else</p> <p>DK</p> </div>	
B.2.3.2	Did you work in the area where scouring or cleaning was done?  <div style="text-align: center;"> <p>Yes</p> <p>No</p> <p>DK</p> </div>	[go to B.2.3.2.1-B.2.3.2.2]
B.2.3.2.1	How many hours per week did you do work in this area?  <div style="text-align: center;"> <p>&lt; 2</p> <p>2 - 9</p> <p>10 - 19</p> <p>20 or more</p> <p>DK</p> </div>	
B.2.3.2.2	Was perchloroethylene (perc) or tetrachloroethylene (tetra) used to scour or clean the products?  <div style="text-align: center;"> <p>Yes</p> <p>No</p> <p>DK</p> </div>	

B.2.3.3	Did you work in the area where dyeing was done? Yes No DK	[go to B.2.3.3.1]
B.2.3.3.1	How many hours per week did you do work in this area? < 2 2 - 9 10 - 19 20 or more DK	
B.2.3.4	Did you work in the area where printing was done? Yes No DK	[go to B.2.3.4.1]
B.2.3.4.1	How many hours per week did you do work in this area? < 2 2 - 9 10 - 19 20 or more DK	
B.2.3.5	Did you work in the area where trimming, cleaning, drying, or other finishing operations and inspecting of the products was done? Yes No DK	[go to B.2.3.5.1-B.2.3.5.2]
B.2.3.5.1	How many hours per week did you do work in this area? < 2 2 - 9 10 - 19 20 or more DK	
B.2.3.5.2	While working in this area, did you spot clean the fabrics or clothing? Yes No DK	[go to B.2.3.5.2.1-B.2.3.5.2.2]
B.2.3.5.2.1	About how many items did you spot clean? 15 items/week or less 15 to 100 items/week More than 100 items/week DK	

B.2.3.5.2.2	<p>To spot clean, what chemicals did you use? Did you use...? (allow multiple)</p> <p>Perchloroethylene (perc) or tetrachloroethylene (tetra)?  Trichloroethylene (TCE)?  Carbon tetrachloride?  Stoddard solvent?  A remover formulated to remove paint, grease or oils?  Gasoline?  Something else?  DK</p>	
B.2.3.6	<p>Did you work in the area where fabric was made resistant to wrinkles, flame, stains, soil, shrinkage, water, moths, mildew, or something else?</p> <p>Yes  No  DK</p>	[go to B.2.3.6.1-B.2.3.6.2]
B.2.3.6.1	<p>How many hours per week did you do work in this area?</p> <p>&lt; 2  2 - 9  10 - 19  20 or more  DK</p>	
B.2.3.6.2	<p>What type of treatment was being done to the fabric? (allow multiple)</p> <p>Wrinkle resistance or durable or permanent press  Flame resistance  Stain resistance  Soil resistance  Shrink resistance  Water resistance  Moth resistance  Mildew resistance  Other  DK</p>	
B.2.3.7	<p>Did you clean the screens used to transfer color to the fabric?</p> <p>Yes  No  DK</p>	[go to B.2.3.7.1]
B.2.3.7.1	<p>What chemicals did you use to do this? (Allow multiple)</p> <p>Carbon tetrachloride  Trichloroethylene  Trichloroethane  Chloroform  Perchloroethylene (perc) or tetrachloroethylene (tetra)  Some other chemical  DK</p>	

B.2.3.8	[Hands mini-module]	[END]
B.2.3.9	[Degrease Mini-Module]	
B.2.3.10	[Paint Mini-Module]	
B.2.3.11	[Strip Mini-Module]	
B.2.3.12	[Glue Mini-Module]	
B.2.3.13	[Board Mini-Module]	
B.2.3.14	[Fuel Mini-Module]	
B.2.3.15	[Hands mini-module]	[END]
B.2.3.16	Did you take samples from the process or production line for testing purposes?  Yes No DK	[go to 2.3.16.1]
B.2.3.16.1	How many hours per week did you do this?  < 2 2 - 9 10 - 19 20 or more DK	
B.2.3.17	Did you perform chemical or physical tests on process or product samples?  Yes No DK	[go to 2.3.17.1] [END] [END]
B.2.3.17.1	How many hours per week did you do this?  < 2 2 - 9 10 - 19 20 or more DK	[END] [END] [END] [END] [END]
B.2.3.18	[Paint Mini-Module]	
B.2.3.19	[Glue Mini-Module]	
B.2.3.20	[Board Mini-Module]	
B.2.3.21	[Fuel Mini-Module]	
B.2.3.22	[Hands mini-module]	[END]
SECTION D	[Degrease Mini-Module]	
SECTION E	[Paint Mini-Module]	
SECTION F	[Strip Mini-Module]	
SECTION G	[Glue Mini-Module]	
SECTION H	[Board Mini-Module]	
SECTION I	[Fuel Mini-Module]	
SECTION J	[Hands mini-module]	

<b>EMBALMER (EM) MODULE</b>		
1	Did you perform or assist with embalmings? Yes No DK	[go to 1.1-1.2]
1.1	How many hours per week did you do this? < 2 2 - 9 10 - 19 20 or more DK	
1.2	[Vent Mini-module]	

<b>FOUNDRY INDUSTRY (FOI) MODULE</b>		
1	How would you best describe your job at this employer? Production (make, assemble, or process materials or parts into products or finished goods) Maintenance or Utilities (maintain or repair equipment, tools, property or utilities) Quality Control, Environmental Control, Engineering or Research Shipping, Receiving or Storage Administration DK	[go to 2] [go to 1.1-1.6] [go to 1.7-1.8] [go to 1.9-1.12] [go to 2] [go to 2]
1.1	[Degrease Mini-Module]	
1.2	[Paint Mini-Module]	
1.3	[Strip Mini-Module]	
1.4	[Glue Mini-Module]	
1.5	[Board Mini-Module]	
1.6	[Fuel Mini-Module]	[go to 2]
1.7	Did you take samples from the process or production line for testing purposes?  Yes No DK	[go to 1.7.1]
1.7.1	How many hours per week did you do this?  < 2 2 - 9 10 - 19 20 or more DK	
1.8	Did you perform chemical or physical tests on process or product samples?  Yes No DK	[go to 1.8.1] [go to 2] [go to 2]
1.8.1	How many hours per week did you do this?  < 2 2 - 9 10 - 19 20 or more DK	[go to 2] [go to 2] [go to 2] [go to 2] [go to 2]
1.9	[Paint Mini-Module]	
1.1	[Glue Mini-Module]	
1.11	[Board Mini-Module]	
1.12	[Fuel Mini-Module]	[go to 2]

2	Did you ever spend time in a production area of the plant, such as the core making, mold making, metal pouring, cooling, shakeout or fettling areas?	<p>Yes</p> <p>No</p> <p>DK</p>	<p>[go to 2.1-2.5]</p> <p>[go to 3]</p> <p>[go to 3]</p>
2.1	Did you ever spend time working in the core making area?	<p>Yes</p> <p>No</p> <p>DK</p>	[go to 2.1.1-2.1.3]
2.1.1	How many hours per week did you do this?	<p>&lt; 2</p> <p>2 - 9</p> <p>10 - 19</p> <p>20 or more</p> <p>DK</p>	
2.1.2	Did the cores have to be heated in an oven or furnace before they set up, or were chemicals used to set up the core? By set up, I mean the process of hardening sand to form a core.	<p>Heated in an oven or furnace</p> <p>Chemicals were used</p> <p>Both</p> <p>Other</p> <p>DK</p>	
2.1.3	Did you ever run a muller or other machine to mix sand and chemicals used to make the core ?	<p>Yes</p> <p>No</p> <p>DK</p>	[go to 2.1.3.1 - 2.1.3.3]
2.1.3.1	How many hours per week did you do this?	<p>&lt; 2</p> <p>2 - 9</p> <p>10 - 19</p> <p>20 or more</p> <p>DK</p>	
2.1.3.2	What chemicals were used to make the core? Was it...? (allow multiple)	<p>Epoxy resins</p> <p>Phenolic resins</p> <p>Urethane resins</p> <p>Furan resins</p> <p>Isocyanates</p>	

		Formaldehyde Something else DK	
2.1.3.3	[Vent Mini-module]		
2.2	Did you ever spend time working in the mold making area?	Yes No DK	[go to 2.2.1-2.2.5]
2.2.1	How many hours per week did you do this?	< 2 2 - 9 10 - 19 20 or more DK	
2.2.2	[Vent Mini-module]		
2.2.3	Did the molds have to be heated in an oven or furnace before they set up, or were chemicals used to set up the molds? By set up, I mean the process of hardening sand to form a core.	Heated in an oven or furnace Chemicals were used Both Other DK	
2.2.4	Did you ever add or mix chemicals or other materials to the sand?	Yes No DK	[go to 2.2.4.1]
2.2.4.1	How many hours per week did you do this?	< 2 2 - 9 10 - 19 20 or more DK	
2.2.5	Did you dump the molds?	Yes No DK	[go to 2.2.5.1]
2.2.5.1	How many hours per week did you do this?	< 2 2 - 9 10 - 19 20 or more DK	



2.3	Did you ever spend time working in the metal pouring area? Yes No DK	[go to 2.3.1]
2.3.1	How many hours per week did you do this? < 2 2 - 9 10 - 19 20 or more DK	
2.4	Did you ever spend time working in the cooling area where the hot metal cooled? Yes No DK	[go to 2.4.1]
2.4.1	How many hours per week did you do this? < 2 2 - 9 10 - 19 20 or more DK	
2.5	Did you ever spend time working in the shakeout or fettling area? Yes No DK	[go to 2.5.1]
2.5.1	How many hours per week did you do this? < 2 2 - 9 10 - 19 20 or more DK	
3	[Hands mini-module]	

<b>FURNITURE INDUSTRY (FUI) MODULE</b>		
1	What type of furniture did your employer make? (allow multiple) Plastic furniture? Wood furniture? Metal furniture? Kitchen or bathroom countertops? Another type of furniture? DK	[go to 1.1] [go to 1.2] [go to 2] [go to 1.3-1.6] [go to 2] [go to 2]
1.1	Did you personally make or mold the plastic, or did you assemble the furniture?  Make or mold plastic Assembled furniture Both Neither Something Else DK	
1.2	What type of wood product did you work with? (allow multiple) Solid wood Plywood, particleboard, or composite board Veneered wood Other wood DK	
1.3	Did you work in the chemical mixing area? Yes No DK	[go to 1.3.1-1.3.2]
1.3.1	How many hours per week did you do work in this area? < 2 2 - 9 10 - 19 20 or more DK	
1.3.2	What chemicals did you mix? (allow multiple) Phenol Formaldehyde Something else DK	
1.4	Did you work in the area where sheets of paper were coated with chemicals? Yes No DK	[go to 1.4.1]

1.4.1	How many hours per week did you do work in this area?  < 2 2 - 9 10 - 19 20 or more DK	
1.5	Did you work in the area where the sheets of coated papers were stacked?  Yes No DK	[go to 1.5.1]
1.5.1	How many hours per week did you do work in this area?  < 2 2 - 9 10 - 19 20 or more DK	
1.6	Did you work in the area where the coated stacks of paper were pressed together?  Yes No DK	[go to 1.6.1-1.6.2]
1.6.1	How many hours per week did you do work in this area?  < 2 2 - 9 10 - 19 20 or more DK	
1.6.2	Was the pressing of the paper done under heat?  Yes No DK	
2	Did you ever work in the area where paints, stains, varnishes, lacquers, waxes, or other chemicals were applied?  Yes No DK	[go to 2.1-2.6]
2.1	How many hours per week did you do work in this area?  < 2 2 - 9 10 - 19 20 or more DK	

2.2	Did you ever degrease the furniture? Yes No DK	[ask 2.2.1-2.2.2]
2.2.1	How many hours per week did you do this? < 2 2 - 9 10 - 19 20 or more DK	
2.2.2	How did you degrease the furniture? (allow multiple) By hand Some other way DK	
2.3	In this job, did you ever use paint? Yes No DK	[go to 2.3.1-2.3.3]
2.3.1	How many hours per week did you do this? < 2 2 - 9 10 - 19 20 or more DK	
2.3.2	What did you usually use to apply the paint? (allow multiple) Brush Roller Electrostatic gun Spray gun Dip item into paint Other DK	
2.3.3	[Vent Mini-module]	
2.3.4	Did other workers use paints in the area where you worked? Yes No DK	[go to 2.3.4.1]
2.3.4.1	How many hours per week did other workers perform this task while you were working in this area? < 2 2 - 9 10 - 19 20 or more DK	

2.4	[Stain mini-module]	
2.5	Did you ever lacquer the furniture? Yes No DK	[go to 2.5.1-2.5.2]
2.5.1	How many hours per week did you do this? < 2 2 - 9 10 - 19 20 or more DK	
2.5.2	How did you usually apply the lacquer? (allow multiple) Brush Rag Spray gun Electrostatic gun Roller Dipping Other DK	
2.6	Did you ever apply wax to the furniture? Yes No DK	[go to 2.6.1]
2.6.1	How many hours per week did you do this? < 2 2 - 9 10 - 19 20 or more DK	
3	Did you ever work in the area where paint, stains, varnishes, lacquers, or waxes were removed? Yes No DK	[go to 3.1-3.2]
3.1	How many hours per week did you do work in this area? < 2 2 - 9 10 - 19 20 or more DK	

3.2	How did you usually remove it? Was it with? (allow multiple) Chemicals A rag A brush Some other way DK	
4	Did you ever work in the area where a chemical or wax was drying on the furniture?  Yes No DK	[go to 4.1-4.2]
4.1	How many hours per week did you do work in this area?  < 2 2 - 9 10 - 19 20 or more DK	
4.2	Which chemicals were being dried on the furniture? Was it...? (allow multiple):  Paints Stains Varnishes Lacquers Waxes Something else DK	
5	[Glue Mini-module]	
6	In this job, did you ever repair or maintain equipment or property??  Yes No DK	[go to 6.1-6.3]
6.1	How many hours per week did you do this?  < 2 2 - 9 10 - 19 20 or more DK	
6.2	[Degrease Mini-Module]	
6.3	[ Fuel Mini-Module]	
7	[Hands mini-module]	

<b>GENERAL FARMING - FOOD INDUSTRY MODULE (LONG)</b>		
1	In this job, what best describes your work location? (allow multiple) A farm where crops were grown or livestock were raised A factory, warehouse, or processing center where food products were processed or packaged A restaurant or other food service location where food was prepared or sold None of the above	[go to SECTION A] [go to SECTION B]  [go to SECTION C - SECTION I]
SECTION A [aGF]		
A.1	On the farms you worked, were crops raised to sell or to feed animals?  Yes No DK	[go to A.1.1-A.1.4]
A.1.1	In this job, did you ever apply any type of chemicals to kill weeds, bugs, fungus or molds, or rodents such as rats?  Yes No DK	[go to A.1.1.1-A.1.1.5]
A.1.1.1	Did you apply herbicides or weed killers?  Yes No DK	[go to A.1.1.1.1-A.1.1.1.3]
A.1.1.1.1	On average, how many times a year did you apply herbicides or weed killers?  [number 0-1000] DK	
A.1.1.1.2	Each time you did this, how many hours did it take?  [number 0-24] DK	
A.1.1.1.3	Did you add kerosene, diesel fuel, Stoddard solvent or oil to the weed killers or herbicides that you mixed?  Yes No DK	
A.1.1.2	Did you apply insecticides or bug killers?  Yes No DK	[go to A.1.1.2.1-A.1.1.2.3]
A.1.1.2.1	On average, how many times a year did you apply insecticides or bug killers?  [number 0-1000] DK	

A.1.1.2.2	Each time you did this, how many hours did it take? [number 0-24] DK	
A.1.1.2.3	Did you add kerosene, diesel fuel, Stoddard solvent or oil to the insecticides or bug killers that you mixed? Yes No DK	
A.1.1.3	Did you apply fumigants? Yes No DK	[go to A.1.1.3.1-A.1.1.3.3]
A.1.1.3.1	On average, how many times a year did you apply fumigants? [number 0-1000] DK	
A.1.1.3.2	Each time you did this, how many hours did it take? [number 0-24] DK	
A.1.1.3.3	Did you add kerosene, diesel fuel, Stoddard solvent or oil to the fumigants that you mixed? Yes No DK	
A.1.1.4	Did you apply fungicides to kill mold or fungus? Yes No DK	[go to A.1.1.4.1-A.1.1.4.3]
A.1.1.4.1	On average, how many times a year did you apply fungicides? [number 0-1000] DK	
A.1.1.4.2	Each time you did this, how many hours did it take? [number 0-24] DK	
A.1.1.4.3	Did you add kerosene, diesel fuel, Stoddard solvent or oil to the fungicides that you mixed? Yes No DK	
A.1.1.5	Did you apply rodenticides to kill rodents, such as rats? Yes No DK	[go to A.1.1.5.1-A.1.1.5.3]
A.1.1.5.1	On average, how many times a year did you apply rodenticides? [number 0-1000]	



		DK	
A.1.1.5.2	Each time you did this, how many hours did it take? [number 0-24]	DK	
A.1.1.5.3	Did you add kerosene, diesel fuel, Stoddard solvent or oil to the rodenticides that you mixed?	Yes No DK	
A.1.1.6	Did you work in an area where someone else applied any type of chemicals to kill weeds, bugs, fungus or molds, or rodents such as rats?	Yes No DK	[go to A.1.1.6.1]
A.1.1.6.1	What type of chemicals were used? (allow multiple) Herbicides or weed killers Insecticides or bug killers Fumigants Fungicides to kill mold or fungus Rodenticides to kill rodents, such as rats Something else DK		
A.1.1.7	Were your hands ever immersed in a solvent, a solvent-based product, or fuel?	Yes No DK	
A.1.1.8	Did you wear gloves while using solvents or solvent-based products?	Yes No Not applicable - did not use solvents DK	
A.1.1.9	Did you clean your hands with a solvent, a solvent-based product or with fuel, such as gasoline?	Yes No DK	
A.1.2	Did you apply a disinfectant or preservative to the crop? I don't mean a chemical used to kill weeds or bugs.	Yes No DK	[go to A.1.2.1-A.1.2.3]

A.1.2.1	On average, how many days a year did you apply it? [number 0-365] DK	
A.1.2.2	On average, how many hours a day did you apply it? [number 0-24] DK	
A.1.2.3	Did you add kerosene, diesel fuel, Stoddard solvent or oil to the weed killers you mixed?  Yes No DK	
A.1.3	Did you apply fertilizer to the crop?  Yes No DK	[go to A.1.3.1-A.1.3.3]
A.1.3.1	On average, how many days a year did you apply it? [number 0-365] DK	
A.1.3.2	On average, how many hours a day did you apply it? [number 0-24] DK	
A.1.3.3	Did you add kerosene, diesel fuel, Stoddard solvent or oil to the fertilizer you mixed?  Yes No DK	
A.1.4	Did you apply any chemical products into the soil to make the plants grow better? Please say no if you only added fertilizer.  Yes No DK	[go to A.1.4.1-A.1.4.4]
A.1.4.1	What did you add? (allow multiple)  Polystyrene flakes Urea-formaldehyde resin Phenolic resin foam Polyurethane foam Something else DK	
A.1.4.2	On average, how many days a year did you apply it? [number 0-365] DK	
A.1.4.3	On average, how many hours a day did you apply it? [number 0-24] DK	

A.1.4.4	Did you add kerosene, diesel fuel, Stoddard solvent or oil to the chemical products you mixed?  Yes No DK	
A.2	On the farms you worked, were animals raised?  Yes No DK	[go to A.2.1]
A.2.1	Were the animals ever housed in a building?  Yes No DK	[go to A.2.1.1]
A.2.1.1	Did you or anyone else ever fumigate the area where the animals were housed?  Yes No DK	[go to A.2.1.1.1]
A.2.1.1.1	What fumigant was used?  Formaldehyde Carbon tetrachloride Phosphine Other fumigant DK	
A.3	In this job, did you ever repair or maintain equipment or property??  Yes No DK	[go to A.3.1-A.3.3]
A.3.1	How many hours per week did you do this?  < 2 2 - 9 10 - 19 20 or more DK	
A.3.2	In this job, did you ever clean or degrease metal or plastic parts with chemicals?  Yes No DK	[go to A.3.2.1-A.3.2.5]

A.3.2.1	<p>How many hours per week did you do this?</p> <p>&lt; 2 2 - 9 10 - 19 20 or more DK</p>	
A.3.2.2	<p>When you cleaned metal or plastic parts, what did you use? Did you use...? (allow multiple)</p> <p>Trichloroethylene Gasoline or other fuels Benzene, toluene, or xylene Mineral spirits, stoddard solvent, turpentine or naphtha Paint thinner Any other solvent Any other degreaser DK</p>	
A.3.2.3	<p>Were the chemicals at room temperature or were they heated in a tank, vat, or vapor degreaser? (allow multiple)</p> <p>Room temperature Heated in vapor degreaser Heated in vat or tank Other DK</p>	
A.3.2.4	<p>How did you clean the parts? Did you ...? (allow multiple)</p> <p>Wipe with rag/cloth Wipe with brush Put in basket and manually dipped into tank Put in basket and dipped into tank using automated system Put into tank or bucket with hands Other DK</p>	
A.3.2.5	<p>Was there a local exhaust system to remove the dust, fumes or vapors that was produced?</p> <p>Yes No DK</p>	
A.3.2.6	<p>Did other workers clean or degrease parts in the area where you worked?</p> <p>Yes No DK</p>	[go to A.3.2.6.1]
A.3.2.6.1	<p>How many hours per week did other workers perform this task while you were working in this area?</p> <p>&lt; 2 2-9 10-19</p>	

		20 or more DK	
A.3.3	In this job, did you ever handle or pump fuel?	Yes No DK	[go to A.3.3.1]
A.3.3.1	How many hours per week did you do this?	< 2 2 - 9 10 - 19 20 or more DK	
A.4	Were your hands ever immersed in a solvent, a solvent-based product, or fuel?	Yes No DK	
A.5	Did you wear gloves while using solvents or solvent-based products?	Yes No Not applicable - did not use solvents DK	
A.6	Did you clean your hands with a solvent, a solvent-based product or with fuel, such as gasoline?	Yes No DK	
	SECTION B [aFDI]		
B.1	How would you best describe your job at this employer? Production (make, assemble, or process materials or parts into products or finished goods) Maintenance or Utilities (maintain or repair equipment, tools, property or utilities) Quality Control, Environmental Control, Engineering or Research Shipping, Receiving or Storage Administration DK		[go to B.1.1-B.1.6]  [go to B.1.7-B.1.10]
B.1.1	In this job, did you ever clean or degrease metal or plastic parts with chemicals?	Yes No DK	[go to B.1.1.1-B.1.1.5]

B.1.1.1	<p>How many hours per week did you do this?</p> <p>&lt; 2 2 - 9 10 - 19 20 or more DK</p>	
B.1.1.2	<p>When you cleaned metal or plastic parts, what did you use? Did you use...? (allow multiple)</p> <p>Trichloroethylene Gasoline or other fuels Benzene, toluene, or xylene Mineral spirits, stoddard solvent, turpentine or naphtha Paint thinner Any other solvent Any other degreaser DK</p>	
B.1.1.3	<p>Were the chemicals at room temperature or were they heated in a tank, vat, or vapor degreaser? (allow multiple)</p> <p>Room temperature Heated in vapor degreaser Heated in vat or tank Other DK</p>	
B.1.1.4	<p>How did you clean the parts? Did you ...? (allow multiple)</p> <p>Wipe with rag/cloth Wipe with brush Put in basket and manually dipped into tank Put in basket and dipped into tank using automated system Put into tank or bucket with hands Other DK</p>	
B.1.1.5	<p>Was there a local exhaust system to remove the dust, fumes or vapors that was produced?</p> <p>Yes No DK</p>	

B.1.1.6	Did other workers clean or degrease parts in the area where you worked?  Yes No DK	[go to B.1.1.6.1]
B.1.1.6.1	How many hours per week did other workers perform this task while you were working in this area?  < 2 2-9 10-19 20 or more DK	
B.1.2	In this job, did you ever use paint?  Yes No DK	[go to B.1.2.1-B.1.2.5]
B.1.2.1	How many hours per week did you do this?  < 2 2 - 9 10 - 19 20 or more DK	
B.1.2.2	What did you usually use to apply the paint? (allow multiple)  Brush Roller Electrostatic gun Spray gun Dip item into paint Other DK	
B.1.2.3	Did you paint indoors or inside a ship?  Yes No DK	[go to B.1.2.3.1-B.1.2.3.2]
B.1.2.3.1	How many hours per week did you do this?  < 2 2 - 9 10 - 19 20 or more DK	
B.1.2.3.2	Was there a local exhaust system to remove the dust, fumes or vapors that was produced?  Yes No DK	

B.1.2.3.3	Did you paint in a production area of a manufacturing plant? Yes No DK	[go to B.1.2.3.3.1]
B.1.2.3.3.1	How many hours per week did you do this? < 2 2 - 9 10 - 19 20 or more DK	
B.1.2.4	Did you paint outdoors? Yes No DK	[go to B.1.2.4.1]
B.1.2.4.1	How many hours per week did you do this? < 2 2 - 9 10 - 19 20 or more DK	
B.1.2.5	Did other workers use paints in the area where you worked? Yes No DK	[go to B.1.2.5.1]
B.1.2.5.1	How many hours per week did other workers perform this task while you were working in this area? < 2 2-9 10-19 20 or more DK	
B.1.3	In this job, did you ever strip paint from metal or wood objects? Yes No DK	[go to B.1.3.1-B.1.3.2]
B.1.3.1	How many hours per week did you do this? < 2 2 - 9 10 - 19 20 or more DK	



B.1.3.2	To strip paint, what did you use? Did you use...? (allow multiple) Methylene chloride Acids, alkalis, or caustic solutions? Any other chemical Something else, such as a heat gun or scraper DK	
B.1.3.3	Did other workers strip paint from metal or wood objects in the area where you worked?  Yes No DK	[go to B.1.3.3.1]
B.1.3.3.1	How many hours per week did other workers perform this task while you were working in this area?  < 2 2-9 10-19 20 or more DK	
B.1.4	In this job, did you ever use glues or adhesives?  Yes No DK	[go to B.1.4.1-B.1.4.8]
B.1.4.1	How many hours per week did you do this?  < 2 2 - 9 10 - 19 20 or more DK	
B.1.4.2	What material were the things you were gluing made of? (allow multiple)  Wood Metal Plastic Paper Fabrics Other DK	
B.1.4.3	Was there a local exhaust system to remove the dust, fumes or vapors that was produced?  Yes No DK	

B.1.4.4	Did you use water-based glues or adhesives, for example, vinyl or acrylic resins?  Yes No DK	[go to B.1.4.4.1]
B.1.4.4.1	How many hours per week did you do this?  < 2 2 - 9 10 - 19 20 or more DK	
B.1.4.5	Did you use glues or adhesives that you heated with a gun or other heated device?  Yes No DK	[ go to B.1.4.5.1]
B.1.4.5.1	How many hours per week did you do this?  < 2 2 - 9 10 - 19 20 or more DK	
B.1.4.6	Did you use contact glues or adhesives where you apply the glue to both pieces being glued, let it dry for a short time, and then join the two pieces together?  Yes No DK	[go to B.1.4.6.1]
B.1.4.6.1	How many hours per week did you do this?  < 2 2 - 9 10 - 19 20 or more DK	
B.1.4.7	Did you use glues or adhesives that require mixing two parts of the glue together before applying? (epoxy resins)  Yes No DK	[go to B.1.4.7.1]
B.1.4.7.1	How many hours per week did you do this?  < 2 2 - 9 10 - 19	

		20 or more DK	
B.1.4.8	Did you use urea, phenol or melamine-based glues or adhesives?	Yes No DK	[go to B.1.4.8.1]
B.1.4.8.1	How many hours per week did you do this?	< 2 2 - 9 10 - 19 20 or more DK	
B.1.4.9	Did other workers use glues or adhesives in the area where you worked?	Yes No DK	[ask B.1.4.9.1]
B.1.4.9.1	How many hours per week did other workers perform this task while you were working in this area?	< 2 2-9 10-19 20 or more DK	
B.1.5	In this job, did you ever handle or use particle board, plywood, or veneered wood?	Yes No DK	[go to B.1.5.1]
B.1.5.1	How many hours per week did you do this?	< 2 2 - 9 10 - 19 20 or more DK	
B.1.5.2	Did other workers work with particle board, plywood, or veneered wood in the area where you worked?	Yes No DK	[go to B.1.5.2.1]

B.1.5.2.1	How many hours per week did other workers perform this task while you were working in this area? < 2 2-9 10-19 20 or more DK	
B.1.6	In this job, did you ever handle or pump fuel? Yes No DK	[go to B.1.6.1]
B.1.6.1	How many hours per week did you do this? < 2 2 - 9 10 - 19 20 or more DK	
B.1.7	In this job, did you ever use paint? Yes No DK	[go to B.1.7.1-B.1.7.4]
B.1.7.1	How many hours per week did you do this? < 2 2 - 9 10 - 19 20 or more DK	
B.1.7.2	What did you usually use to apply the paint? (allow multiple) Brush Roller Electrostatic gun Spray gun Dip item into paint Other DK	
B.1.7.3	Did you paint indoors or inside a ship? Yes No DK	[go to B.1.7.3.1-B.1.7.3.2]

B.1.7.3.1	How many hours per week did you do this? < 2 2 - 9 10 - 19 20 or more DK	
B.1.7.3.2	Was there a local exhaust system to remove the dust, fumes or vapors that was produced? Yes No DK	
B.1.7.3.3	Did you paint in a production area of a manufacturing plant? Yes No DK	[go to B.1.7.3.3.1]
B.1.7.3.3.1	How many hours per week did you do this? < 2 2 - 9 10 - 19 20 or more DK	
B.1.7.4	Did you paint outdoors? Yes No DK	[go to B.1.7.1.4.1]
B.1.7.4.1	How many hours per week did you do this? < 2 2 - 9 10 - 19 20 or more DK	
B.1.7.5	Did other workers use paints in the area where you worked? Yes No DK	[go to B.1.7.5.1]
B.1.7.5.1	How many hours per week did other workers perform this task while you were working in this area? < 2 2-9 10-19 20 or more DK	

B.1.8	In this job, did you ever use glues or adhesives? Yes No DK	[go to B.1.8.1-B.1.8.8]
B.1.8.1	How many hours per week did you do this? < 2 2 - 9 10 - 19 20 or more DK	
B.1.8.2	What material were the things you were gluing made of? (allow multiple) Wood Metal Plastic Paper Fabrics Other DK	
B.1.8.3	Was there a local exhaust system to remove the dust, fumes or vapors that was produced? Yes No DK	
B.1.8.4	Did you use water-based glues or adhesives, for example, vinyl or acrylic resins? Yes No DK	[go to B.1.8.4.1]
B.1.8.4.1	How many hours per week did you do this? < 2 2 - 9 10 - 19 20 or more DK	
B.1.8.5	Did you use glues or adhesives that you heated with a gun or other heated device? Yes No DK	[ go to B.1.8.5.1]

B.1.8.5.1	How many hours per week did you do this? <p style="text-align: center;"> &lt; 2  2 - 9  10 - 19  20 or more  DK </p>	
B.1.8.6	Did you use contact glues or adhesives where you apply the glue to both pieces being glued, let it dry for a short time, and then join the two pieces together? <p style="text-align: center;"> Yes  No  DK </p>	[go to B.1.8.6.1]
B.1.8.6.1	How many hours per week did you do this? <p style="text-align: center;"> &lt; 2  2 - 9  10 - 19  20 or more  DK </p>	
B.1.8.7	Did you use glues or adhesives that require mixing two parts of the glue together before applying? (epoxy resins) <p style="text-align: center;"> Yes  No  DK </p>	[go to B.1.8.7.1]
B.1.8.7.1	How many hours per week did you do this? <p style="text-align: center;"> &lt; 2  2 - 9  10 - 19  20 or more  DK </p>	
B.1.8.8	Did you use urea, phenol or melamine-based glues or adhesives? <p style="text-align: center;"> Yes  No  DK </p>	[go to B.1.8.8.1]
B.1.8.8.1	How many hours per week did you do this? <p style="text-align: center;"> &lt; 2  2 - 9  10 - 19  20 or more  DK </p>	

B.1.8.9	<p>Did other workers use glues or adhesives in the area where you worked?</p> <p>Yes No DK</p>	[ask B.1.8.9.1]
B.1.8.9.1	<p>How many hours per week did other workers perform this task while you were working in this area?</p> <p>&lt; 2 2-9 10-19 20 or more DK</p>	
B.1.9	<p>In this job, did you ever handle or use particle board, plywood, or veneered wood?</p> <p>Yes No DK</p>	[go to B.1.9.1]
B.1.9.1	<p>How many hours per week did you do this?</p> <p>&lt; 2 2 - 9 10 - 19 20 or more DK</p>	
B.1.9.2	<p>Did other workers work with particle board, plywood, or veneered wood in the area where you worked?</p> <p>Yes No DK</p>	[go to B.1.9.2.1]
B.1.9.2.1	<p>How many hours per week did other workers perform this task while you were working in this area?</p> <p>&lt; 2 2-9 10-19 20 or more DK</p>	
B.1.10	<p>In this job, did you ever handle or pump fuel?</p> <p>Yes No DK</p>	[go to B.1.10.1]



B.1.10.1	How many hours per week did you do this?  <div style="text-align: center;"> <p>&lt; 2</p> <p>2 - 9</p> <p>10 - 19</p> <p>20 or more</p> <p>DK</p> </div>	
B.2	Did you work in an area where preservatives were added to the food?  <div style="text-align: center;"> <p>Yes</p> <p>No</p> <p>DK</p> </div>	[go to B.2.1]
B.2.1	How many hours per week did you do work in this area?  <div style="text-align: center;"> <p>&lt; 2</p> <p>2 - 9</p> <p>10 - 19</p> <p>20 or more</p> <p>DK</p> </div>	
B.3	Did you work in an area where disinfectants were added to the food?  <div style="text-align: center;"> <p>Yes</p> <p>No</p> <p>DK</p> </div>	[go to B.3.1]
B.3.1	How many hours per week did you do work in this area?  <div style="text-align: center;"> <p>&lt; 2</p> <p>2 - 9</p> <p>10 - 19</p> <p>20 or more</p> <p>DK</p> </div>	
B.4	Did you work in an area where fumigants were used?  <div style="text-align: center;"> <p>Yes</p> <p>No</p> <p>DK</p> </div>	[go to B.4.1]
B.4.1	How many hours per week did you do work in this area?  <div style="text-align: center;"> <p>&lt; 2</p> <p>2 - 9</p> <p>10 - 19</p> <p>20 or more</p> <p>DK</p> </div>	
B.5	Were your hands ever immersed in a solvent, a solvent-based product, or fuel?  <div style="text-align: center;"> <p>Yes</p> <p>No</p> <p>DK</p> </div>	

B.6	Did you wear gloves while using solvents or solvent-based products?  Yes No Not applicable - did not use solvents DK	
B.7	Did you clean your hands with a solvent, a solvent-based product or with fuel, such as gasoline?  Yes No DK	
SECTION C [Degrease Mini-Module]		
C.1	In this job, did you ever clean or degrease metal or plastic parts with chemicals?  Yes No DK	[go to C.1.1-C.1.5]
C.1.1	How many hours per week did you do this?  < 2 2 - 9 10 - 19 20 or more DK	
C.1.2	When you cleaned metal or plastic parts, what did you use? Did you use...? (allow multiple)  Trichloroethylene Gasoline or other fuels Benzene, toluene, or xylene Mineral spirits, stoddard solvent, turpentine or naphtha Paint thinner Any other solvent Any other degreaser DK	
C.1.3	Were the chemicals at room temperature or were they heated in a tank, vat, or vapor degreaser? (allow multiple)  Room temperature Heated in vapor degreaser Heated in vat or tank Other DK	

C.1.4	How did you clean the parts? Did you ...? (allow multiple) Wipe with rag/cloth Wipe with brush Put in basket and manually dipped into tank Put in basket and dipped into tank using automated system Put into tank or bucket with hands Other DK	
C.1.5	Was there a local exhaust system to remove the dust, fumes or vapors that was produced? Yes No DK	
C.2	Did other workers clean or degrease parts in the area where you worked? Yes No DK	[go to C.2.1]
C.2.1	How many hours per week did other workers perform this task while you were working in this area? < 2 2-9 10-19 20 or more DK	
SECTION D [Paint Mini-Module]		
D.1	In this job, did you ever use paint? Yes No DK	[go to D.1.1-D.1.5]
D.1.1	How many hours per week did you do this? < 2 2 - 9 10 - 19 20 or more DK	
D.1.2	What did you usually use to apply the paint? (allow multiple) Brush Roller Electrostatic gun	

		Spray gun Dip item into paint Other DK	
D.1.3	Did you paint indoors or inside a ship?	Yes No DK	[go to D.1.3.1-D.1.3.2]
D.1.3.1	How many hours per week did you do this?	< 2 2 - 9 10 - 19 20 or more DK	
D.1.3.2	Was there a local exhaust system to remove the dust, fumes or vapors that was produced?	Yes No DK	
D.1.3.3	Did you paint in a production area of a manufacturing plant?	Yes No DK	[go to D.1.3.3.1]
D.1.3.3.1	How many hours per week did you do this?	< 2 2 - 9 10 - 19 20 or more DK	
D.1.4	Did you paint outdoors?	Yes No DK	[go to D.1.4.1]
D.1.4.1	How many hours per week did you do this?	< 2 2 - 9 10 - 19 20 or more DK	
D.2	Did other workers use paints in the area where you worked?	Yes No DK	[go to D.2.1]

D.2.1	How many hours per week did other workers perform this task while you were working in this area? < 2 2-9 10-19 20 or more DK	
SECTION E [Strip Mini-Module]		
E.1	In this job, did you ever strip paint from metal or wood objects? Yes No DK	[go to E.1.1-E.1.3]
E.1.1	How many hours per week did you do this? < 2 2 - 9 10 - 19 20 or more DK	
E.1.2	To strip paint, what did you use? Did you use...? (allow multiple) Methylene chloride Acids, alkalis, or caustic solutions? Any other chemical Something else, such as a heat gun or scraper DK	
E.2	Did other workers strip paint from metal or wood objects in the area where you worked? Yes No DK	[go to E.2.1]
E.2.1	How many hours per week did other workers perform this task while you were working in this area? < 2 2-9 10-19 20 or more DK	
SECTION F [Glue Mini-Module]		
F.1	1. In this job, did you ever use glues or adhesives? Yes No DK	[go to F.1.1-F.1.8]

F.1.1	How many hours per week did you do this?  < 2 2 - 9 10 - 19 20 or more DK	
F.1.2	What material were the things you were gluing made of? (allow multiple)  Wood Metal Plastic Paper Fabrics Other DK	
F.1.3	Was there a local exhaust system to remove the dust, fumes or vapors that was produced?  Yes No DK	
F.1.4	Did you use water-based glues or adhesives, for example, vinyl or acrylic resins?  Yes No DK	[go to F.1.4.1]
F.1.4.1	How many hours per week did you do this?  < 2 2 - 9 10 - 19 20 or more DK	
F.1.5	Did you use glues or adhesives that you heated with a gun or other heated device?  Yes No DK	[ go to F.1.5.1]
F.1.5.1	How many hours per week did you do this?  < 2 2 - 9 10 - 19 20 or more DK	

F.1.6	<p>Did you use contact glues or adhesives where you apply the glue to both pieces being glued, let it dry for a short time, and then join the two pieces together?</p> <p>Yes No DK</p>	[go to F.1.6.1]
F.1.6.1	<p>How many hours per week did you do this?</p> <p>&lt; 2 2 - 9 10 - 19 20 or more DK</p>	
F.1.7	<p>Did you use glues or adhesives that require mixing two parts of the glue together before applying? (epoxy resins)</p> <p>Yes No DK</p>	[go to F.1.7.1]
F.1.7.1	<p>How many hours per week did you do this?</p> <p>&lt; 2 2 - 9 10 - 19 20 or more DK</p>	
F.1.8	<p>Did you use urea, phenol or melamine-based glues or adhesives?</p> <p>Yes No DK</p>	[go to F.1.8.1]
F.1.8.1	<p>How many hours per week did you do this?</p> <p>&lt; 2 2 - 9 10 - 19 20 or more DK</p>	
F.2	<p>Did other workers use glues or adhesives in the area where you worked?</p> <p>Yes No DK</p>	[ask F.2.1]
F.2.1	<p>How many hours per week did other workers perform this task while you were working in this area?</p> <p>&lt; 2 2-9 10-19</p>	

		20 or more DK	
	SECTION G [Board Mini-Module]		
G.1	In this job, did you ever handle or use particle board, plywood, or veneered wood?	Yes No DK	[go to G.1.1]
G.1.1	How many hours per week did you do this?	< 2 2 - 9 10 - 19 20 or more DK	
G.2	Did other workers work with particle board, plywood, or veneered wood in the area where you worked?	Yes No DK	[go to G.2.1]
G.2.1	How many hours per week did other workers perform this task while you were working in this area?	< 2 2-9 10-19 20 or more DK	
	SECTION H [Fuel Mini-Module]		
H.1	In this job, did you ever handle or pump fuel?	Yes No DK	[go to H.1.1]
H.1.1	How many hours per week did you do this?	< 2 2 - 9 10 - 19 20 or more DK	
	SECTION I [Hands mini-module]		
I.1	Were your hands ever immersed in a solvent, a solvent-based product, or fuel?	Yes No DK	



I.2	Did you wear gloves while using solvents or solvent-based products?  Yes No Not applicable - did not use solvents DK	
I.3	Did you clean your hands with a solvent, a solvent-based product or with fuel, such as gasoline?  Yes No DK	

<b>INDUSTRY SOLVENT (INSOL) MODULE</b>		
1	How would you best describe your job at this employer? Production (make, assemble, or process materials or parts into products or finished goods) Maintenance or Utilities (maintain or repair equipment, tools, property or utilities) Quality Control, Environmental Control, Engineering or Research Shipping, Receiving or Storage Administration DK	[go to 2] [go to 1.1-1.6] [go to 1.7-1.8] [go to 1.9-1.12] [go to 2] [go to 2]
1.1	[Degrease Mini-Module]	
1.2	[Paint Mini-Module]	
1.3	[Strip Mini-Module]	
1.4	[Glue Mini-Module]	
1.5	[ Board Mini-Module]	
1.6	[Fuel Mini-Module]	[go to 2]
1.7	Did you take samples from the process or production line for testing purposes?  Yes No DK	[go to 1.7.1]
1.7.1	How many hours per week did you do this?  < 2 2 - 9 10 - 19 20 or more DK	
1.8	Did you perform chemical or physical tests on process or product samples?  Yes No DK	[go to 1.8.1] [go to 2] [go to 2]
1.8.1	How many hours per week did you do this?  < 2 2 - 9 10 - 19 20 or more DK	[go to 2] [go to 2] [go to 2] [go to 2] [go to 2]
1.9	[Paint Mini-Module]	
1.10	[Glue Mini-Module]	
1.11	[Board Mini-Module]	
1.12	[Fuel Mini-Module]	
2	[Hands mini-module]	

<b>LEATHER INDUSTRY (LEI) MODULE</b>		
1	<p>Did your employer make leather, make a leather product, or do both?</p> <p>Make leather  Make leather product  Both  DK</p>	
2	<p>What color was the leather? (allow multiple)</p> <p>Brown  Pale cream or white  Other  DK</p>	
3	<p>How would you best describe your job at this employer?</p> <p>Production (make, assemble, or process materials or parts into products or finished goods)  Maintenance or Utilities (maintain or repair equipment, tools, property or utilities)  Quality Control, Environmental Control, Engineering or Research  Shipping, Receiving or Storage  Administration  DK</p>	<p>[go to 3.1 - 3.2]  [go to 3.3-3.8]  [go to 4]  [go to 3.9-3.12]  [go to 4]  [go to 4]</p>
3.1	<p>Was the leather or leather product from animal hides or skins, or was the leather synthetic or man-made?</p> <p>Animal hide  Synthetic or man-made  Both  Something else  DK</p>	<p>[go to 3.1.1-3.1.3]  [go to 3.1.4-3.1.6]  [go to 3.1.7 - 3.1.12]  [go to 4]  [go to 4]</p>
3.1.1	<p>Was the leather already tanned or prepared, or did hides or skin come into the plant that had to have the hair and flesh removed and tanning done to the hides and skins?</p> <p>Already tanned  Hair still on/needed tanning  Other  DK</p>	<p>[go to 3.1.1.1-3.1.1.3]</p>
3.1.1.1	<p>Did you work in the area where the hide or skin was prepared for tanning ?</p> <p>Yes  No  DK</p>	<p>[go to 3.1.1.1.1]</p>
3.1.1.1.1	<p>How many hours per week did you do work in this area?</p> <p>&lt; 2  2 - 9</p>	

		10 - 19 20 or more DK	
3.1.1.2	Did you work in the area where the hides and skins were tanned?	Yes No DK	[go to 3.1.1.2.1]
3.1.1.2.1	How many hours per week did you do work in this area?	< 2 2 - 9 10 - 19 20 or more DK	
3.1.1.3	Did you work in the area where the tanned leather was stuffed or fat liquored?	Yes No DK	[go to 3.1.1.3.1]
3.1.1.3.1	Did you apply the chemicals to stuff or fat liquor the leather?	Yes No DK	[go to 3.1.1.3.1.1-3.1.1.3.1.2]
3.1.1.3.1.1	How many hours per week did you do this?	< 2 2 - 9 10 - 19 20 or more DK	
3.1.1.3.1.2	What chemicals did you use? (allow multiple) Oils TCE or trichloroethylene Perchloroethylene (perc) or tetrachloroethylene (tetra) Some other chemicals DK		
3.1.2	Did you apply a chemical to the leather?	Yes No DK	[go to 3.1.2.1]
3.1.2.1	How many hours per week did you do this?	< 2 2 - 9 10 - 19 20 or more DK	

3.1.3	Did you work in the area where the tanned leather was dried, set out, stretched and softened?  Yes No DK	[go to 3.1.3.1]
3.1.3.1	How many hours per week did you do work in this area?  < 2 2 - 9 10 - 19 20 or more DK	
3.1.4	Did you work in the area where chemicals were mixed to make a leather-like resin or plastic?  Yes No DK	[go to 3.1.4.1]
3.1.4.1	How many hours per week did you do work in this area?  < 2 2 - 9 10 - 19 20 or more DK	
3.1.5	Did you work in the area where chemicals were heated to make a leather-like resin or plastic?  Yes No DK	[go to 3.1.5.1]
3.1.5.1	How many hours per week did you do work in this area?  < 2 2 - 9 10 - 19 20 or more DK	
3.1.6	Did you work in the area where chemicals were extruded to make a leather-like resin or plastic?  Yes No DK	[go to 3.1.6.1]
3.1.6.1	How many hours per week did you do work in this area?  < 2 2 - 9 10 - 19 20 or more DK	

3.1.7	Was the leather already tanned or prepared, or did hides or skin come into the plant that had to have the hair and flesh removed and tanning done to the hides and skins? Already tanned Hair still on/needed tanning Other DK	[go to 3.1.7.1-3.1.7.3]
3.1.7.1	Did you work in the area where the hide or skin was prepared for tanning? Yes No DK	[go to 3.1.1.7.1]
3.1.7.1.1	How many hours per week did you do work in this area? < 2 2 - 9 10 - 19 20 or more DK	
3.1.7.2	Did you work in the area where the hides and skins were tanned? Yes No DK	[go to 3.1.7.2.1]
3.1.7.2.1	How many hours per week did you do work in this area? < 2 2 - 9 10 - 19 20 or more DK	
3.1.7.3	Did you work in the area where the tanned leather was stuffed or fat liquored? Yes No DK	[go to 3.1.7.3.1]
3.1.7.3.1	Did you apply the chemicals to stuff or fat liquor the leather? Yes No DK	[go to 3.1.7.3.1.1-3.1.7.3.1.2]
3.1.7.3.1.1	How many hours per week did you do this? < 2 2 - 9 10 - 19 20 or more DK	

3.1.7.3.1.2	<p>What chemicals did you use? (allow multiple)</p> <p>Oils</p> <p>TCE or trichloroethylene</p> <p>Perchloroethylene (perc) or tetrachloroethylene (tetra)</p> <p>Some other chemicals</p> <p>DK</p>	
3.1.8	<p>Did you apply a chemical to the leather?</p> <p>Yes</p> <p>No</p> <p>DK</p>	[go to 3.1.8.1]
3.1.8.1	<p>How many hours per week did you do this?</p> <p>&lt; 2</p> <p>2 - 9</p> <p>10 - 19</p> <p>20 or more</p> <p>DK</p>	
3.1.9	<p>Did you work in the area where the tanned leather was dried, set out, stretched and softened?</p> <p>Yes</p> <p>No</p> <p>DK</p>	[go to 3.1.9.1]
3.1.9.1	<p>How many hours per week did you do work in this area?</p> <p>&lt; 2</p> <p>2 - 9</p> <p>10 - 19</p> <p>20 or more</p> <p>DK</p>	
3.1.10	<p>Did you work in the area where chemicals were mixed to make a leather-like resin or plastic?</p> <p>Yes</p> <p>No</p> <p>DK</p>	[go to 3.1.10.1]
3.1.10.1	<p>How many hours per week did you do work in this area?</p> <p>&lt; 2</p> <p>2 - 9</p> <p>10 - 19</p> <p>20 or more</p> <p>DK</p>	
3.1.11	<p>Did you work in the area where chemicals were heated to make a leather-like resin or plastic?</p> <p>Yes</p> <p>No</p> <p>DK</p>	[go to 3.1.11.1]

3.1.11.1	How many hours per week did you do work in this area?  <div style="text-align: center;"> <p>&lt; 2</p> <p>2 - 9</p> <p>10 - 19</p> <p>20 or more</p> <p>DK</p> </div>	
3.1.12	Did you work in the area where chemicals were extruded to make a leather-like resin or plastic?  <div style="text-align: center;"> <p>Yes</p> <p>No</p> <p>DK</p> </div>	[go to 3.1.12.1]
3.1.12.1	How many hours per week did you do work in this area?  <div style="text-align: center;"> <p>&lt; 2</p> <p>2 - 9</p> <p>10 - 19</p> <p>20 or more</p> <p>DK</p> </div>	
3.2	Did you work in the area where the leather pieces were glued together or glued to metal or plastic pieces?  <div style="text-align: center;"> <p>Yes</p> <p>No</p> <p>DK</p> </div>	[go to 3.2.1 - 3.2.2]
3.2.1	How many hours per week did you do work in this area?  <div style="text-align: center;"> <p>&lt; 2</p> <p>2 - 9</p> <p>10 - 19</p> <p>20 or more</p> <p>DK</p> </div>	
3.2.2	Did you do the gluing?  <div style="text-align: center;"> <p>Yes</p> <p>No</p> <p>DK</p> </div>	[go to 3.2.2.1]
3.2.2.1	How many hours per week did you do this?  <div style="text-align: center;"> <p>&lt; 2</p> <p>2 - 9</p> <p>10 - 19</p> <p>20 or more</p> <p>DK</p> </div>	
3.3	[Degrease Mini-Module]	
3.4	[Paint Mini-Module]	
3.5	[Strip Mini-Module]	
3.6	[Glue Mini-Module]	
3.7	[Board Mini-Module]	



3.8	[Fuel Mini-Module]	
3.9	[Paint Mini-Module]	
3.10	[Glue Mini-Module]	
3.11	[Board Mini-Module]	
3.12	[Fuel Mini-Module]	
4	[Hands mini-module]	

<b>LUMBER INDUSTRY (LUI) MODULE</b>		
1	What did the employer do? (allow multiple) Cut trees Cut up logs in a sawmill Make plywood, particle board, or other type of composite board Make veneered wood Make cork Something else DK	[go to 2] [go to 2] [go to 1.1] [go to 1.2] [go to 2] [go to 2] [go to 2]
1.1	In the factory where plywood, particle board or other type of composite board were made, did you operate a machine? Yes No DK	[go to 1.1.1-1.1.3]
1.1.1	How many hours per week did you do this? < 2 2 - 9 10 - 19 20 or more DK	
1.1.2	What did the machine do? Saw Coat or treat with chemicals Heat press Something else DK	
1.1.3	Did the machine have direct ventilation that removed the dust, fumes, or vapors from your area? Yes No DK	
1.2	In the factory where veneered wood was made, did you operate a machine? Yes No DK	[go to 1.2.1-1.2.3]
1.2.1	How many hours per week did you do this? < 2 2 - 9 10 - 19 20 or more DK	

1.2.2	What did the machine do?  Saw Coat or treat with chemicals Heat press Something else DK	
1.2.3	Did the machine have direct ventilation that removed the dust, fumes, or vapors from your area?  Yes No DK	
2	In this job, did you ever repair or maintain equipment or property??  Yes No DK	[go to 2.1-2.6] [go to 3] [go to 3]
2.1	[Degrease Mini-Module]	
2.2	[Paint Mini-Module]	
2.3	[Stain Mini-Module]	
2.4	[Strip Mini-Module]	
2.5	[Glue Mini-Module]	
2.6	[Fuel Mini-Module]	
3	[Hands mini-module]	

<b>OIL REFINING INDUSTRY (ORI)</b>		
1	How would you best describe your job at this employer? Production (make, assemble, or process materials or parts into products or finished goods) Maintenance or Utilities (maintain or repair equipment, tools, property or utilities) Quality Control, Environmental Control, Engineering or Research Shipping, Receiving or Storage Administration DK	[go to 2] [go to 1.1-1.6] [go to 1.7-1.8] [go to 1.9-1.12] [go to 2] [go to 2]
1.1	[Degrease Mini-Module]	
1.2	[Paint Mini-Module]	
1.3	[Strip Mini-Module]	
1.4	[Glue Mini-Module]	
1.5	[Board Mini-Module]	
1.6	[Fuel Mini-Module]	[go to 2]
1.7	Did you take samples from the process or production line for testing purposes?  Yes No DK	[go to 1.7.1]
1.7.1	How many hours per week did you do this?  < 2 2 - 9 10 - 19 20 or more DK	
1.8	Did you perform chemical or physical tests on process or product samples?  Yes No DK	[go to 1.8.1] [go to 2] [go to 2]
1.8.1	How many hours per week did you do this?  < 2 2 - 9 10 - 19 20 or more DK	[go to 2] [go to 2] [go to 2] [go to 2] [go to 2]
1.9	[Paint Mini-Module]	
1.10	[Glue Mini-Module]	
1.11	[Board Mini-Module]	
1.12	[Fuel Mini-Module]	

2	Did you work in FRACTIONATION? (This is where the crude oil is processed to remove water, organic salts, and sulfur) Yes No DK	[go to 2.1]
2.1	How many hours per week did you do work in this area? < 2 2 - 9 10 - 19 20 or more DK	
3	Did you work in CRACKING? (This is where cracking occurs) Yes No DK	[go to 3.1]
3.1	How many hours per week did you do work in this area? < 2 2 - 9 10 - 19 20 or more DK	
4	Did you work in COKING? (very heavy residual oils formed into gasoline and diesel fuel, leaving petroleum coke as a residual product) Yes No DK	[go to 4.1]
4.1	How many hours per week did you do work in this area? < 2 2 - 9 10 - 19 20 or more DK	
5	Did you work in LIQUID FUEL BLENDING? (This is where fuels are blended) Yes No DK	[go to 5.1]
5.1	How many hours per week did you do work in this area? < 2 2 - 9 10 - 19 20 or more DK	

6	Did you work in an area where benzene or benzole was produced?  Yes No DK	[go to 6.1]
6.1	How many hours per week did you do work in this area?  < 2 2 - 9 10 - 19 20 or more DK	
7	Did you work in the TANK FARM? (This is where the products are stored)  Yes No DK	[go to 7.1]
7.1	How many hours per week did you do work in this area?  < 2 2 - 9 10 - 19 20 or more DK	
8	Did you work in LOADING? (This is where barges, trains, trucks were loaded)  Yes No DK	[go to 8.1]
8.1	How many hours per week did you do work in this area?  < 2 2 - 9 10 - 19 20 or more DK	
9	[Hands mini-module]	

<b>PESTICIDE (PE) MODULE</b>		
1	In this job, did you ever apply any type of chemicals to kill weeds, bugs, fungus or molds, or rodents such as rats? Yes No DK	[go to 1.1-1.5] [go to 1.6] [go to 2]
1.1	Did you apply herbicides or weed killers? Yes No DK	[go to 1.1.1-1.1.3]
1.1.1	On average, how many times a year did you apply herbicides or weed killers? [number 0-1000] DK	
1.1.2	Each time you did this, how many hours did it take? [number 0-24] DK	
1.1.3	Did you add kerosene, diesel fuel, Stoddard solvent or oil to the weed killers or herbicides that you mixed? Yes No DK	
1.2	Did you apply insecticides or bug killers? Yes No DK	[go to 1.2.1-1.2.3]
1.2.1	On average, how many times a year did you apply insecticides or bug killers? [number 0-1000] DK	
1.2.2	Each time you did this, how many hours did it take? [number 0-24] DK	
1.2.3	Did you add kerosene, diesel fuel, Stoddard solvent or oil to the insecticides or bug killers that you mixed? Yes No DK	
1.3	Did you apply fumigants? Yes No DK	[go to 1.3.1-1.3.3]

1.3.1	On average, how many times a year did you apply fumigants? [number 0-1000] DK	
1.3.2	Each time you did this, how many hours did it take? [number 0-24] DK	
1.3.3	Did you add kerosene, diesel fuel, Stoddard solvent or oil to the fumigants that you mixed?  Yes No DK	
1.4	Did you apply fungicides to kill mold or fungus?  Yes No DK	[go to 1.4.1-1.4.3]
1.4.1	On average, how many times a year did you apply fungicides? [number 0-1000] DK	
1.4.2	Each time you did this, how many hours did it take? [number 0-24] DK	
1.4.3	Did you add kerosene, diesel fuel, Stoddard solvent or oil to the fungicides that you mixed?  Yes No DK	
1.5	Did you apply rodenticides to kill rodents, such as rats?  Yes No DK	[go to 1.5.1-1.5.3]
1.5.1	On average, how many times a year did you apply rodenticides? [number 0-1000] DK	
1.5.2	Each time you did this, how many hours did it take? [number 0-24] DK	
1.5.3	Did you add kerosene, diesel fuel, Stoddard solvent or oil to the rodenticides that you mixed?  Yes No DK	



1.6	<p>Did you work in an area where someone else applied any type of chemicals to kill weeds, bugs, fungus or molds, or rodents such as rats?</p> <p>Yes No DK</p>	[go to 1.6.1]
1.6.1	<p>What type of chemicals were used? (allow multiple)</p> <p>Herbicides or weed killers Insecticides or bug killers Fumigants Fungicides to kill mold or fungus Rodenticides to kill rodents, such as rats Something else DK</p>	
2	[Hands mini-module ]	

<b>PHOTOGRAPHIC INDUSTRY (PHI) MODULE</b>		
1	Did your employer make photographic film? Yes No DK	[go to 1.1-1.4] [go to 2] [go to 2]
1.1	How would you best describe your job at this employer? Production (make, assemble, or process materials or parts into products or finished goods) Maintenance or Utilities (maintain or repair equipment, tools, property or utilities) Quality Control, Environmental Control, Engineering or Research Shipping, Receiving or Storage Administration DK	[go to 1.2] [go to 1.1.1-1.1.6] [go to 1.1.7-1.1.8] [go to 1.1.9-1.1.12] [go to 1.2] [go to 1.2]
1.1.1	[Degrease Mini-Module]	
1.1.2	[Paint Mini-Module]	
1.1.3	[Strip Mini-Module]	
1.1.4	[Glue Mini-Module]	
1.1.5	[Board Mini-Module]	
1.1.6	[Fuel Mini-Module]	[go to 1.2]
1.1.7	Did you take samples from the process or production line for testing purposes? Yes No DK	[go to 1.1.7.1]
1.1.7.1	How many hours per week did you do this? < 2 2 - 9 10 - 19 20 or more DK	
1.1.8	Did you perform chemical or physical tests on process or product samples? Yes No DK	[go to 1.1.8.1] [go to 1.2] [go to 1.2]
1.1.8.1	How many hours per week did you do this? < 2 2 - 9 10 - 19 20 or more DK	[go to 1.2] [go to 1.2] [go to 1.2] [go to 1.2] [go to 1.2]

1.1.9	[Paint Mini-Module]	
1.1.10	[Glue Mini-Module]	
1.1.11	[Board Mini-Module]	
1.1.12	[Fuel Mini-Module]	
1.2	Did you work in the area where the film was made from chemicals?  Yes No DK	[go to 1.2.1]
1.2.1	How many hours per week did you do work in this area?  < 2 2 - 9 10 - 19 20 or more DK	
1.3	Did you work in the drying area?  Yes No DK	[go to 1.3.1]
1.3.1	How many hours per week did you do work in this area?  < 2 2 - 9 10 - 19 20 or more DK	
1.4	Did you work in the area where the film was rolled onto a canister?  Yes No DK	[go to 1.4.1]
1.4.1	How many hours per week did you do work in this area?  < 2 2 - 9 10 - 19 20 or more DK	
2	Did your employer develop photographic film?  Yes No DK	[go to 2.1]
2.1	Did you develop the film?  Yes No DK	[go to 2.1.1]

2.1.1	Did you use formaldehyde during the processing of the film? Yes No DK	[go to 2.1.1.1]
2.1.1.1	How many hours per week did you do this? < 2 2 - 9 10 - 19 20 or more DK	
3	[Hands mini-module]	

<b>PLASTICS INDUSTRY (PI) MODULE</b>		
1	How would you best describe your job at this employer? Production (make, assemble, or process materials or parts into products or finished goods) Maintenance or Utilities (maintain or repair equipment, tools, property or utilities) Quality Control, Environmental Control, Engineering or Research Shipping, Receiving or Storage Administration DK	[go to 2] [go to 1.1-1.6] [go to 1.7-1.8] [go to 1.9-1.12] [go to 2] [go to 2]
1.1	[Degrease Mini-Module]	
1.2	[Paint Mini-Module]	
1.3	[Strip Mini-Module]	
1.4	[Glue Mini-Module]	
1.5	[Board Mini-Module]	
1.6	[Fuel Mini-Module]	[go to 2]
1.7	Did you take samples from the process or production line for testing purposes?  Yes No DK	[go to 1.7.1]
1.7.1	How many hours per week did you do this?  < 2 2 - 9 10 - 19 20 or more DK	
1.8	Did you perform chemical or physical tests on process or product samples?  Yes No DK	[go to 1.8.1] [go to 2] [go to 2]
1.8.1	How many hours per week did you do this?  < 2 2 - 9 10 - 19 20 or more DK	[go to 2] [go to 2] [go to 2] [go to 2] [go to 2]
1.9	[Paint Mini-Module]	
1.10	[Glue Mini-Module]	
1.11	[Board Mini-Module]	
1.12	[Fuel Mini-Module]	

2	<p>What type of plastics were being made by your employer? (allow multiple)</p> <p>polystyrene phenol-formaldehyde polypropylene urea-formaldehyde polyester melamine Something else DK</p>	
3	<p>Did you work in the area where the plastic was being formed, either by a mold machine or a press?</p> <p>Yes No DK</p>	[go to 3.1]
3.1	<p>How many hours per week did you do work in this area?</p> <p>&lt; 2 2 - 9 10 - 19 20 or more DK</p>	
4	<p>Did you work in the finishing or packing area?</p> <p>Yes No DK</p>	[go to 4.1]
4.1	<p>How many hours per week did you do work in this area?</p> <p>&lt; 2 2 - 9 10 - 19 20 or more DK</p>	
5	<p>Did you work in some other area?</p> <p>Yes No DK</p>	[go to 5.1]
5.1	<p>How many hours per week did you do work in this area?</p> <p>&lt; 2 2 - 9 10 - 19 20 or more DK</p>	
6	[Hands mini-module]	

<b>PULP AND PAPER INDUSTRY (PPI) MODULE</b>		
1	How would you best describe your job at this employer? Production (make, assemble, or process materials or parts into products or finished goods) Maintenance or Utilities (maintain or repair equipment, tools, property or utilities) Quality Control, Environmental Control, Engineering or Research Shipping, Receiving or Storage Administration DK	[go to 2] [go to 1.1-1.6] [go to 1.7-1.8] [1.9-1.12] [go to 2] [go to 2]
1.1	[Degrease Mini-Module]	
1.2	[Paint Mini-Module]	
1.3	[Strip Mini-Module]	
1.4	[Glue Mini-Module]	
1.5	[Board Mini-Module]	
1.6	[Fuel Mini-Module]	[go to 2]
1.7	Did you take samples from the process or production line for testing purposes?  Yes No DK	[go to 1.7.1]
1.7.1	How many hours per week did you do this?  < 2 2 - 9 10 - 19 20 or more DK	
1.8	Did you perform chemical or physical tests on process or product samples?  Yes No DK	[go to 1.8.1] [go to 2] [go to 2]
1.8.1	How many hours per week did you do this?  < 2 2 - 9 10 - 19 20 or more DK	[go to 2] [go to 2] [go to 2] [go to 2] [go to 2]
1.9	[Paint Mini-Module]	
1.10	[Glue Mini-Module]	
1.11	[Board Mini-Module]	
1.12	[Fuel Mini-Module]	

2	Did you work in a paper mill? Yes No DK	[go to 2.1-2.4]
2.1	Did you work in an area where recycled paper was prepared for the papermaking process? Yes No DK	[go to 2.1.1]
2.1.1	Did you remove ink from waste paper? Yes No DK	[go to 2.1.1.1]
2.1.1.1	How many hours per week did you do this? < 2 2 - 9 10 - 19 20 or more DK	
2.2	Did you work in the area where the paper machine was located? Yes No DK	[go to 2.2.1]
2.2.1	How many hours per week did you do work in this area? < 2 2 - 9 10 - 19 20 or more DK	
2.3	Did you work in the drying area? Yes No DK	[go to 2.3.1]
2.3.1	How many hours per week did you do work in this area? < 2 2 - 9 10 - 19 20 or more DK	
2.4	Did you work in the coating area? Yes No DK	[go to 2.4.1]



2.4.1	How many hours per week did you do work in this area? < 2 2 - 9 10 - 19 20 or more DK	
3	Did you work in a pulp mill? Yes No DK	[go to 3.1]
3.1	How many hours per week did you do work in this area? < 2 2 - 9 10 - 19 20 or more DK	
4	[Hands mini-module]	

<b>PRINTING INDUSTRY (PRI) MODULE</b>		
1	<p>How would you best describe your job at this employer?</p> <p>Production (make, assemble, or process materials or parts into products or finished goods)</p> <p>Maintenance or Utilities (maintain or repair equipment, tools, property or utilities)</p> <p>Quality Control, Environmental Control, Engineering or Research</p> <p>Shipping, Receiving or Storage</p> <p>Administration</p> <p>DK</p>	<p>[go to 2]</p> <p>[go to 1.1-1.6]</p> <p>[go to 1.7-1.10]</p> <p>[go to 2]</p> <p>[go to 2]</p>
1.1	[Degrease Mini-Module]	
1.2	[Paint Mini-Module]	
1.3	[Strip Mini-Module]	
1.4	[Glue Mini-Module]	
1.5	[Board Mini-Module]	
1.6	[Fuel Mini-Module]	[go to 2]
1.7	[Paint Mini-Module]	
1.8	[Glue Mini-Module]	
1.9	[Board Mini-Module]	
1.10	[Fuel Mini-Module]	
2	<p>Did you ever work in the plate making, plate engraving, or screen preparation area?</p> <p>Yes</p> <p>No</p> <p>DK</p>	[go to 2.1-2.3]
2.1	<p>How many hours per week did you do work in this area?</p> <p>&lt; 2</p> <p>2 - 9</p> <p>10 - 19</p> <p>20 or more</p> <p>DK</p>	
2.2	<p>Did you clean the printing plates?</p> <p>Yes</p> <p>No</p> <p>DK</p>	[go to 2.2.1]
2.2.1	<p>How many hours per week did you do this?</p> <p>&lt; 2</p> <p>2 - 9</p> <p>10 - 19</p> <p>20 or more</p> <p>DK</p>	

2.2.2	<p>What chemicals did you use to clean the plates? (allow multiple)</p> <p>Carbon tetrachloride  Trichloroethylene  Trichloroethane  Chloroform  Perchloroethylene (perc) or tetrachloroethylene (tetra)  Gasoline or other fuels  Some other chemical  DK</p>	
2.3	<p>Did you wash or clean screens that are used in a silkscreen-like process?</p> <p>Yes  No  DK</p>	[go to 2.3.1-2.3.2]
2.3.1	<p>How many hours per week did you do this?</p> <p>&lt; 2  2 - 9  10 - 19  20 or more  DK</p>	
2.3.2	<p>What chemicals did you use to clean the screens? (allow multiple)</p> <p>Carbon tetrachloride  Trichloroethylene  Trichloroethane  Chloroform  Perchloroethylene (perc) or tetrachloroethylene (tetra)  Gasoline or other fuels  Some other chemical  DK</p>	
3	<p>Did you ever work in the area where the ink was prepared?</p> <p>Yes  No  DK</p>	[go to 3.1-3.2]
3.1	<p>How many hours per week did you do work in this area?</p> <p>&lt; 2  2 - 9  10 - 19  20 or more  DK</p>	
3.2	<p>Did you prepare or mix the ink?</p> <p>Yes  No  DK</p>	[go to 3.2.1-3.2.2]

3.2.1	How many hours per week did you do this? < 2 2 - 9 10 - 19 20 or more DK	
3.2.2	Did you use solvents or chemicals other than water to dilute the ink? Yes No DK	
4	Did you ever work in the printing room or area? Yes No DK	[go to 4.1-4.2]
4.1	How many hours per week did you do this? < 2 2 - 9 10 - 19 20 or more DK	
4.2	Did you run the press? Yes No DK	[go to 4.2.1]
4.2.1	Did you wash or clean the plates or presses? Yes No DK	[go to 4.2.1.1-4.2.1.2]
4.2.1.1	How many hours per week did you do this? < 2 2 - 9 10 - 19 20 or more DK	
4.2.1.2	What chemicals did you use to clean the plates or presses? (allow multiple) Carbon tetrachloride Trichloroethylene Trichloroethane Chloroform Perchloroethylene (perc) or tetrachloroethylene (tetra) Gasoline or other fuels Some other chemical DK	

5	Did you ever work in the area where the ink was cured or the printing material was dried?  Yes No DK	[go to 5.1-5.2]
5.1	How many hours per week did you do work in this area?  < 2 2 - 9 10 - 19 20 or more DK	
5.2	[Vent Mini-module]	
6	Did you ever work in the bookbinding area or an area where paper was folded, trimmed, glued, stapled, or stitched?  Yes No DK	[go to 6.1-6.2]
6.1	How many hours per week did you do work in this area?  < 2 2 - 9 10 - 19 20 or more DK	
6.2	Did you run the gluing machine?  Yes No DK	[go to 6.2.1]
6.2.1	How many hours per week did you do this?  < 2 2 - 9 10 - 19 20 or more DK	
7	[Hands mini-module]	

	<b>RUBBER INDUSTRY (RUI)</b>	
1	How would you best describe your job at this employer? Production (make, assemble, or process materials or parts into products or finished goods) Maintenance or Utilities (maintain or repair equipment, tools, property or utilities) Quality Control, Environmental Control, Engineering or Research Shipping, Receiving or Storage Administration DK	[go to 2] [go to 1.1-1.5] [go to 1.6-1.7] [go to 1.8-1.10] [go to 2] [go to 2]
1.1	[Degrease Mini-Module]	
1.2	[Paint Mini-Module]	
1.3	[Strip Mini-Module]	
1.4	[Board Mini-Module]	
1.5	[Fuel Mini-Module]	[go to 2]
1.6	Did you take samples from the process or production line for testing purposes?  Yes No DK	[go to 1.6.1]
1.6.1	How many hours per week did you do this?  < 2 2 - 9 10 - 19 20 or more DK	
1.7	Did you perform chemical or physical tests on process or product samples?  Yes No DK	[go to 1.7.1] [go to 2] [go to 2]
1.7.1	How many hours per week did you do this?  < 2 2 - 9 10 - 19 20 or more DK	[go to 2] [go to 2] [go to 2] [go to 2] [go to 2]
1.8	[Paint Mini-Module]	
1.9	[Board Mini-Module]	
1.10	[Fuel Mini-Module]	

2	Did you work in the weighing area? Yes No DK	[go to 2.1]
2.1	How many hours per week did you do work in this area? < 2 2 - 9 10 - 19 20 or more DK	
3	Did you work in the modeling area. (This is the area where rubber parts are glued or cemented together)? Yes No DK	[go to 3.1 - 3.3]
3.1	How many hours per week did you do work in this area? < 2 2 - 9 10 - 19 20 or more DK	
3.2	Did you make rubber cement by mixing rubber and solvents or gasoline together? Yes No DK	
3.3	Did you glue rubber and metal together to make rubber-to-metal bonds? Yes No DK	[go to 3.3.1]
3.3.1	[Degrease mini-module]	
4	Did you work in the curing area? Yes No DK	[go to 4.1]
4.1	How many hours per week did you do work in this area? < 2 2 - 9 10 - 19 20 or more DK	

5	<p>Did you work in the finishing/ repair area?</p> <p>Yes</p> <p>No</p> <p>DK</p>	[ask 5.1 - 5.2]
5.1	<p>How many hours per week did you do work in this area?</p> <p>&lt; 2</p> <p>2 - 9</p> <p>10 - 19</p> <p>20 or more</p> <p>DK</p>	
5.2	<p>Did you use a solvent or gasoline to 'polish' the rubber?</p> <p>Yes</p> <p>No</p> <p>DK</p>	
6	[Hands Mini-module]	



<b>SHOE MANUFACTURING INDUSTRY (SHI) (LONG)</b>		
1	<p>How would you best describe your job at this employer?</p> <p>Production (make, assemble, or process materials or parts into products or finished goods)</p> <p>Maintenance or Utilities (maintain or repair equipment, tools, property or utilities)</p> <p>Quality Control, Environmental Control, Engineering or Research</p> <p>Shipping, Receiving or Storage</p> <p>Administration</p> <p>DK</p>	<p>[go to 1.1 - 1.2]</p> <p>[go to 1.3-1.7]</p> <p>[go to 1.8-1.10]</p> <p>[go to 2]</p> <p>[go to 2]</p>
1.1	<p>What type of shoes did you make? (allow multiple)</p> <p>Leather shoes</p> <p>Textile shoes</p> <p>Rubber/plastic shoes or boots</p> <p>Other</p> <p>DK</p>	
1.2	<p>In this job, what part of the shoe-making process did you do? Did you...? (allow multiple)</p> <p>Cut the upper part of the shoe</p> <p>Sew the upper part of the shoe</p> <p>Use a model (or last) to shape the upper part of the shoe</p> <p>Glue the upper part of the shoe to the sole</p> <p>Finish or polish the assembled shoe</p> <p>Something else</p> <p>DK</p>	
1.3	<p>In this job, did you ever clean or degrease metal or plastic parts with chemicals?</p> <p>Yes</p> <p>No</p> <p>DK</p>	[go to 1.3.1-1.3.5]
1.3.1	<p>How many hours per week did you do this?</p> <p>&lt; 2</p> <p>2 - 9</p> <p>10 - 19</p> <p>20 or more</p> <p>DK</p>	
1.3.2	<p>When you cleaned metal or plastic parts, what did you use? Did you use...? (allow multiple)</p> <p>Trichloroethylene</p> <p>Gasoline or other fuels</p> <p>Benzene, toluene, or xylene</p> <p>Mineral spirits, stoddard solvent, turpentine or naphtha</p>	

	Paint thinner Any other solvent Any other degreaser DK	
1.3.3	Were the chemicals at room temperature or were they heated in a tank, vat, or vapor degreaser? (allow multiple) Room temperature Heated in vapor degreaser Heated in vat or tank Other DK	
1.3.4	How did you clean the parts? Did you ...? (allow multiple) Wipe with rag/cloth Wipe with brush Put in basket and manually dipped into tank Put in basket and dipped into tank using automated system Put into tank or bucket with hands Other DK	
1.3.5	Was there a local exhaust system to remove the dust, fumes or vapors that was produced? Yes No DK	
1.3.6	Did other workers clean or degrease parts in the area where you worked? Yes No DK	[go to 1.3.6.1]
1.3.6.1	How many hours per week did other workers perform this task while you were working in this area? < 2 2 - 9 10 - 19 20 or more DK	
1.4	In this job, did you ever use paint? Yes No DK	[go to 1.4.1-1.4.5]
1.4.1	How many hours per week did you do this? < 2 2 - 9	

		10 - 19 20 or more DK	
1.4.2	What did you usually use to apply the paint? (allow multiple)	Brush Roller Electrostatic gun Spray gun Dip item into paint Other DK	
1.4.3	Did you paint indoors or inside a ship?	Yes No DK	[go to 1.3.1-1.3.2]
1.4.3.1	How many hours per week did you do this?	< 2 2 - 9 10 - 19 20 or more DK	
1.4.3.2	Was there a local exhaust system to remove the dust, fumes or vapors that was produced?	Yes No DK	
1.4.3.3	Did you paint in a production area of a manufacturing plant?	Yes No DK	[go to 1.4.3.3.1]
1.4.3.3.1	How many hours per week did you do this?	< 2 2 - 9 10 - 19 20 or more DK	
1.4.4	Did you paint outdoors?	Yes No DK	[go to 1.4.4.1]
1.4.4.1	How many hours per week did you do this?	< 2 2 - 9 10 - 19 20 or more DK	

1.4.5	Did other workers use paints in the area where you worked? Yes No DK	[go to 1.4.5.1]
1.4.5.1	How many hours per week did other workers perform this task while you were working in this area? < 2 2 - 9 10 - 19 20 or more DK	
1.5	In this job, did you ever strip paint from metal or wood objects? Yes, No DK	[go to 1.5.1-1.5.3]
1.5.1	How many hours per week did you do this? < 2 2 - 9 10 - 19 20 or more DK	
1.5.2	To strip paint, what did you use? Did you use...? (allow multiple) Methylene chloride Acids, alkalis, or caustic solutions? Any other chemical Something else, such as a heat gun or scraper DK	
1.5.3	Did other workers strip paint from metal or wood objects in the area where you worked? Yes No DK	[go to 1.5.3.1]
1.5.3.1	How many hours per week did other workers perform this task while you were working in this area? < 2 2 - 9 10 - 19 20 or more DK	
1.6	In this job, did you ever handle or use particle board, plywood, or veneered wood? Yes No DK	[go to 1.6.1]

1.6.1	How many hours per week did you do this? < 2 2 - 9 10 - 19 20 or more DK	
1.6.2	Did other workers work with particle board, plywood, or veneered wood in the area where you worked? Yes, No DK	[go to 1.6.2.1]
1.6.2.1	How many hours per week did other workers perform this task while you were working in this area? < 2 2 - 9 10 - 19 20 or more DK	
1.7	In this job, did you ever handle or pump fuel? Yes No DK	[go to 1.7.1]
1.7.1	How many hours per week did you do this? < 2 2 - 9 10 - 19 20 or more DK	
1.8	In this job, did you ever use paint? Yes No DK	[go to 1.8.1-1.8.5]
1.8.1	How many hours per week did you do this? < 2 2 - 9 10 - 19 20 or more DK	
1.8.2	What did you usually use to apply the paint? (allow multiple) Brush Roller Electrostatic gun Spray gun	

		Dip item into paint Other DK	
1.8.3	Did you paint indoors or inside a ship?	Yes No DK	[go to 1.8.3.1- 1.8.3.2]
1.8.3.1	How many hours per week did you do this?	< 2 2 - 9 10 - 19 20 or more DK	
1.8.3.2	Was there a local exhaust system to remove the dust, fumes or vapors that was produced?	Yes No DK	
1.8.3.3	Did you paint in a production area of a manufacturing plant?	Yes No DK	[go to 1.8.3.3.1]
1.8.3.3.1	How many hours per week did you do this?	< 2 2 - 9 10 - 19 20 or more DK	
1.8.4	Did you paint outdoors?	Yes No DK	[go to 1.8.4.1]
1.8.4.1	How many hours per week did you do this?	< 2 2 - 9 10 - 19 20 or more DK	
1.8.5	Did other workers use paints in the area where you worked?	Yes No DK	[go to 1.8.5.1]

1.8.5.1	How many hours per week did other workers perform this task while you were working in this area? <p style="text-align: center;">&lt; 2 2 - 9 10 - 19 20 or more DK</p>	
1.9	In this job, did you ever handle or use particle board, plywood, or veneered wood? <p style="text-align: center;">Yes No DK</p>	[go to 1.9.1]
1.9.1	How many hours per week did you do this? <p style="text-align: center;">&lt; 2 2 - 9 10 - 19 20 or more DK</p>	
1.9.2	Did other workers work with particle board, plywood, or veneered wood in the area where you worked? <p style="text-align: center;">Yes, No DK</p>	[go to 1.9.2.1]
1.9.2.1	How many hours per week did other workers perform this task while you were working in this area? <p style="text-align: center;">&lt; 2 2 - 9 10 - 19 20 or more DK</p>	
1.10	In this job, did you ever handle or pump fuel? <p style="text-align: center;">Yes No DK</p>	[go to 1.10.1]
1.10.1	How many hours per week did you do this? <p style="text-align: center;">&lt; 2 2 - 9 10 - 19 20 or more DK</p>	
2	In this job, did you ever use glues or adhesives? <p style="text-align: center;">Yes, No DK</p>	[go to 2.1-2.3]

2.1	Was there a local exhaust system to remove the dust, fumes or vapors that was produced?  Yes No DK	
2.2	Did you use solvent-based glues or adhesives, for example, rubber cement?  Yes, No DK	[go to 2.2.1]
2.2.1	How many hours per week did you do this?  < 2 2 - 9 10 - 19 20 or more DK	
2.3	Did you use water-based glues or adhesives, for example, vinyl or acrylic resins?  Yes No DK	[go to 2.3.1]
2.3.1	How many hours per week did you do this?  < 2 2 - 9 10 - 19 20 or more DK	
3	In this job, did other workers use glues or adhesives in the area where you worked?  Yes No DK	[go to 3.1]
3.1	How many hours per week did other workers perform this task while you were working in this area?  < 2 2 - 9 10 - 19 20 or more DK	
4	Were your hands ever immersed in a solvent, a solvent-based product, or fuel?  Yes No DK	



5	Did you wear gloves while using solvents or solvent-based products?  Yes No Not applicable - did not use solvents DK	
6	Did you clean your hands with a solvent, a solvent-based product or with fuel, such as gasoline?  Yes No DK	

	<b>Solvent (SOL) (LONG)</b>	
1	In this job, did you ever clean or degrease metal or plastic parts with chemicals?  Yes No DK	[go to 1.1-1.5]
1.1	How many hours per week did you do this?  < 2 2 - 9 10 - 19 20 or more DK	
1.2	When you cleaned metal or plastic parts, what did you use? Did you use...? (allow multiple) Trichloroethylene Gasoline or other fuels Benzene, toluene, or xylene Mineral spirits, stoddard solvent, turpentine or naphtha Paint thinner Any other solvent Any other degreaser DK	
1.3	Were the chemicals at room temperature or were they heated in a tank, vat, or vapor degreaser? (allow multiple) Room temperature Heated in vapor degreaser Heated in vat or tank Other DK	
1.4	How did you clean the parts? Did you ...? (allow multiple) Wipe with rag/cloth Wipe with brush Put in basket and manually dipped into tank Put in basket and dipped into tank using automated system Put into tank or bucket with hands Other DK	
1.5	Was there a local exhaust system to remove the dust, fumes or vapors that was produced?  Yes No DK	

1.6	Did other workers clean or degrease parts in the area where you worked?  Yes No DK	[go to 1.6.1]
1.6.1	How many hours per week did other workers perform this task while you were working in this area?  < 2 2 - 9 10 - 19 20 or more DK	
2	In this job, did you ever use paint?  Yes No DK	[go to 2.1-2.5]
2.1	How many hours per week did you do this?  < 2 2 - 9 10 - 19 20 or more DK	
2.2	What did you usually use to apply the paint? (allow multiple) Brush Roller Electrostatic gun Spray gun Dip item into paint Other DK	
2.3	Did you paint indoors or inside a ship?  Yes No DK	[go to 2.3.1-2.3.2]
2.3.1	How many hours per week did you do this?  < 2 2 - 9 10 - 19 20 or more DK	

2.3.2	Was there a local exhaust system to remove the dust, fumes or vapors that was produced?  Yes No DK	
2.3.3	Did you paint in a production area of a manufacturing plant?  Yes No DK	[go to 2.3.3.1]
2.3.3.1	How many hours per week did you do this?  < 2 2 - 9 10 - 19 20 or more DK	
2.4	Did you paint outdoors?  Yes No DK	[go to 2.4.1]
2.4.1	How many hours per week did you do this?  < 2 2 - 9 10 - 19 20 or more DK	
2.5	Did other workers use paints in the area where you worked?  Yes No DK	[go to 2.5.1]
2.5.1	How many hours per week did other workers perform this task while you were working in this area?  < 2 2 - 9 10 - 19 20 or more DK	
3	In this job, did you use stains or varnishes?  Yes No DK	[go to 3.1-3.3]

3.1	How many hours per week did you do this?  < 2 2 - 9 10 - 19 20 or more DK	
3.2	What type of stains or varnishes did you use? Did you use...? (allow multiple)  Water-based stains Water-based varnishes Oil-based stains Oil-based varnishes Something else DK	
3.3	Was there a local exhaust system to remove the dust, fumes or vapors that was produced?  Yes No DK	
3.4	Did other workers use stains or varnishes in the area where you worked?  Yes No DK	[go to 3.4.1]
3.4.1	How many hours per week did other workers perform this task while you were working in this area?  < 2 2 - 9 10 - 19 20 or more DK	
4	In this job, did you ever strip paint from metal or wood objects?  Yes, No DK	[go to 4.1-4.3]
4.1	How many hours per week did you do this?  < 2 2 - 9 10 - 19 20 or more DK	

4.2	To strip paint, what did you use? Did you use...? (allow multiple) Methylene chloride Acids, alkalis, or caustic solutions? Any other chemical Something else, such as a heat gun or scraper DK	
4.3	Did other workers strip paint from metal or wood objects in the area where you worked?  Yes No DK	[go to 4.3.1]
4.3.1	How many hours per week did other workers perform this task while you were working in this area?  < 2 2 - 9 10 - 19 20 or more DK	
5	In this job, did you ever use glues or adhesives?  Yes, No DK	[go to 5.1-5.8]
5.1	How many hours per week did you do this?  < 2 2 - 9 10 - 19 20 or more DK	
5.2	What material were the things you were gluing made of? (allow multiple)  Wood Metal Plastic Paper Fabrics Other DK	
5.3	Was there a local exhaust system to remove the dust, fumes or vapors that was produced?  Yes No DK	
5.4	Did you use water-based glues or adhesives, for example, vinyl or	

	acrylic resins?  Yes No DK	[go to 5.4.1]
5.4.1	How many hours per week did you do this?  < 2 2 - 9 10 - 19 20 or more DK	
5.5	Did you use glues or adhesives that you heated with a gun or other heated device?  Yes, No DK	[go to 5.5.1]
5.5.1	How many hours per week did you do this?  < 2 2 - 9 10 - 19 20 or more DK	
5.6	Did you use contact glues or adhesives where you apply the glue to both pieces being glued, let it dry for a short time, and then join the two pieces together?  Yes No DK	[go to 5.6.1]
5.6.1	How many hours per week did you do this?  < 2 2 - 9 10 - 19 20 or more DK	
5.7	Did you use glues or adhesives that require mixing two parts of the glue together before applying? (epoxy resins)  Yes No DK	[go to 5.7.1]
5.7.1	How many hours per week did you do this?  < 2 2 - 9 10 - 19 20 or more DK	

5.8	Did you use urea, phenol or melamine-based glues or adhesives? Yes No DK	[go to 5.8.1]
5.8.1	How many hours per week did you do this? < 2 2 - 9 10 - 19 20 or more DK	
5.9	Did other workers use glues or adhesives in the area where you worked? Yes No DK	[ask 5.9.1]
5.9.1	How many hours per week did other workers perform this task while you were working in this area? < 2 2 - 9 10 - 19 20 or more DK	
6	In this job, did you ever handle or use particle board, plywood, or veneered wood? Yes No DK	[go to 6.1]
6.1	How many hours per week did you do this? < 2 2 - 9 10 - 19 20 or more DK	
6.2	Did other workers work with particle board, plywood, or veneered wood in the area where you worked? Yes, No DK	[go to 6.2.1]
6.2.1	How many hours per week did other workers perform this task while you were working in this area? < 2 2 - 9 10 - 19 20 or more DK	



7	In this job, did you ever handle or pump fuel? Yes No DK	[go to 7.1]
7.1	How many hours per week did you do this? < 2 2 - 9 10 - 19 20 or more DK	
8	Were your hands ever immersed in a solvent, a solvent-based product, or fuel? Yes No DK	
9	Did you wear gloves while using solvents or solvent-based products? Yes No Not applicable - did not use solvents DK	
10	Did you clean your hands with a solvent, a solvent-based product or with fuel, such as gasoline? Yes No DK	

<b>TEACHER (TE) MODULE</b>		
1	What grade level did you teach? (allow multiple) Elementary or below Junior high/middle school High school Vocational or technical school College or university Other DK	
2	What subjects did you teach? (allow multiple) Art Biology Chemistry Industrial shop Other DK	[END] [go to 2.1] [go to 2.2] [go to 2.3-2.5] [END] [END]
2.1	Did you teach a lab component for this subject? Yes No DK	[go to 2.1.1]
2.1.1	How many hours per week did you do this? < 2 2 - 9 10 - 19 20 or more DK	
2.2	Did you teach a lab component for this subject? Yes No DK	[go to 2.2.1]
2.2.1	How many hours per week did you do this? < 2 2 - 9 10 - 19 20 or more DK	
2.3	[Degrease Mini-module]	
2.4	[Paint Mini-Module]	
2.5	[Hands mini-module]	