## 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. 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. 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.

	CHEMIST (CH) MODULE	
1	In this job, did you work in a lab?	
	Yes	
	No	[go to 2]
	DK	[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	[go to 3]
	DK	[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	

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

3	Did you use chlorinated solvents?	
	Yes	
	No	[go to 4]
	DK	[go to 4]
3.1	How many hours per week did you do this?	
	< 2	
	2 - 9	
	10 - 19	
	20 or m	ore
	DK	
3.2	What chlorinated solvents did you use? Did y multiple)	ou use? (allow
	Trichlor	oethylene
	Dichloro	omethane
	Other cl	nlorinated solvent
	DK	
4	Did you use benzene?	
	Yes	
	No	[go to 5]
	DK	[go to 5]
4.1	How many hours per week did you do this?	
	< 2	
	2 - 9	
	10 - 19	
	20 or m	ore
5	DK	such as vulono ar
5	Did you use any other aromatic compounds, toluene?	such as xylene or
	Yes	
	No	[go to 6]
	DK	[go to 6]
5.1	How many hours per week did you do this?	
	< 2	
	2 - 9	
	10 - 19	
	20 or m	ore
_	DK	
6	Did you use formaldehyde or a formaldehyde	e solution?
	Yes	
	No	[go to 7]
	DK	[go to 7]

6.1	How many hours per week did you do this	?	
	< 2		
	2 - 9		
	10 - 1	.9	
		more	
	DK		
7	Did you use dyes?		
	Yes		
	No		[go to 8]
	DK		[go to 8]
7.1	How many hours per week did you do this	?	
	< 2		
	2 - 9		
	10 - 1	.9	
		more	
	DK		
7.2	Were these dyes usually in solid or liquid f	orm?	
	Solid		[go to 8]
	Liqui	d	[go to 7.2.1]
	Both		[go to 8]
	DK		[go to 8]
7.2.1	What did these dyes contain? Did they co	ntain? (allow multiple)	
	Benz		
		ene or xylene	
		loroethylene	
		aldehyde	
	Some DK	ething else	
8	Were your hands ever immersed in a solve	ant a coluent based	
0	product, or fuel?	ent, a solvent-based	
	Yes		
	No		
	DK		
9	Did you wear gloves while using solvents of	or solvent-based	
	products?		
	Yes		
	No	P 11 P1 .	
	Not a solve	applicable - did not use	
	DK	ents	
10	Did you clean your hands with a solvent, a	solvent-based product or	
	with fuel, such as gasoline?	Join Dasca product of	
	Yes		
	No		
•	•		•

	DK	
	JANITOR (JA) MODULE	
1	In this job, did you ever clean office areas?	
	Yes	
	No	[go to 2]
	DK	[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	r
	No	[go to 3]
	DK	[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	[go to 4]
	DK	[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	[go to 5]
	DK	[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 ever work in an area where materials containing solvents,	
	such as paints, varnishes, glues, or degreasers were used?	
	Yes	
	No	[go to 6]
	DK	[go to 6]
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	
6	In this job, did you ever repair or maintain equipment or property??	
	Yes	
	No	[go to 7]
	DK	[go to 7]
6.1	How many hours per week did you do this?	
	< 2	
	2 - 9	
	10 - 19	
	20 or more	
	DK	
6.2	In this job, did you ever clean or degrease metal or plastic parts	
	with chemicals?	
	Yes	[ +- C 2]
	No	[go to 6.3]
6.2.1	DK	[go to 6.3]
0.2.1	How many hours per week did you do this? < 2	
	2-9	
	10-19	
	20 or more	
	DK	
6.2.2	When you cleaned metal or plastic parts, what did you use? Did	
0.2.2	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	

6.2.3	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	
6.2.4	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	
6.2.5	Was there a local exhaust system to remove the dust, fumes or	
	vapors that was produced?	
	Yes	
	No	
	DK	
6.3	Did other workers clean or degrease parts in the area where you worked?	
	Yes	
	No	[go to 6.4]
	DK	[go to 6.4]
6.3.1	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	
6.4	In this job, did you ever handle or pump fuel?	
	Yes	
	No	[go to 7]
	DK	[go to 7]
6.4.1	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	

	HEALTH PROFESSION (HP) MODULE	
1	In this job, did you work in a room where instruments or other	
	equipment was being sterilized?	
	Yes	
	No	[go to 2]
	DK	[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	[go to 3]
	DK	[go to 3]
2.1	What disinfectant or antiseptic did you use? Did you use? (allow	10 1
	multiple)	
	Formaldehyde	
	Phisohex	
	Something else	
	DK	
3	In this job, did you clean dialysis machines?	
	Yes	
	No	[go to 4]
	DK	[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 endoscop	es?	
	,	Yes	
		No	[go to 5]
		DK	[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	[go to 6]
		DK	[go to 6]
5.1	How many hours per week did you		
		< 2	
		2 - 9	
		10 - 19	
		20 or more	
		DK	
5.2	Did you use dyes?		
		Yes	[
		No	[go to 5.3]
F 2.4	. I la coma a constanta di alcano	DK	[go to 5.3]
5.2.1	How many hours per week did you		
		< 2	
		2 - 9 10 - 19	
		20 or more	
		DK	
5.3	Did you use benzene?	DIV	
3.3	Did you use benzene.	Yes	
		No	[go to 5.4]
		DK	[go to 5.4]
5.3.1	How many hours per week did you		1.5
	, , , , , , , , , , , , , , , , , , , ,	< 2	
		2 - 9	
		10 - 19	
		20 or more	
		DK	

5.4	Did you use trichloroethylene?	
	Yes	
	No	[go to 5.5]
	DK	[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	[go to 6]
	DK	[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	[go to 7]
	DK	[go to 7]
6.1	In this job, did you ever clean or degrease metal or plastic parts with chemicals?	
	Yes	
	No	[go to 6.2]
	DK	[go to 6.2]
6.1.1	How many hours per week did you do this?	
	< 2	
	2 - 9	
	10 - 19	
	20 or more	
6.1.2	DK When you cleaned metal or plastic parts, what did you use?	
0.1.2	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	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	
6.1.4	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	
6.1.5	Was there a local exhaust system to remove the dust, fumes or	
	vapors that was produced?	
	Yes	
	No	
	DK	
6.2	Did other workers clean or degrease parts in the area where you	
	worked?	
	Yes	
	No	[go to 6.3]
	DK	[go to 6.3]
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	
6.3	In this job, did you ever use paint?	
	Yes	
	No	[go to 6.4]
	DK	[go to 6.4]
6.3.1	How many hours per week did you do this?	
	< 2	
	2 - 9	
	10 - 19	
	20 or more	
	DK	

6.3.2	What did you usually use to apply the paint? (allow multiple)	
	Brush	
	Roller	
	Electrostatic gun	
	Spray gun	
	Dip item into paint	
	Other	
	DK	
6.3.3	Did you paint indoors or inside a ship?	
	Yes	
	No	[go to 6.3.4]
	DK	[go to 6.3.4]
6.3.3.1	How many hours per week did you do this?	1.0
	< 2	
	2 - 9	
	10 - 19	
	20 or more	
	DK	
6.3.3.2	Was there a local exhaust system to remove the dust, fumes or	
	vapors that was produced?	
	Yes	
	No	
	DK	
6.3.3.3	Did you paint in a production area of a manufacturing plant?	
	Yes	
	No	[go to 6.3.4]
	DK	[go to 6.3.4]
6.3.3.3.1	How many hours per week did you do this?	
	< 2	
	2 - 9	
	10 - 19	
	20 or more	
	DK	
6.3.4	Did you paint outdoors?	
	Yes	
	No	[go to 6.4]
	DK	[go to 6.4]
6.3.4.1	How many hours per week did you do this?	
	< 2	
	2 - 9	
	10 - 19	
	20 or more	
	DK	

6.4	Did other workers use paints in the area where you worked?	
	Yes	
	No	[go to 6.5]
	DK	[go to 6.5]
6.4.1	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	
6.5	In this job, did you ever strip paint from metal or wood objects?	
	Yes,	
	No	[go to 6.6]
	DK	[go to 6.6]
6.5.1	How many hours per week did you do this?	
	< 2	
	2 - 9	
	10 - 19	
	20 or more	
	DK	
6.5.2	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	
6.6	Did other workers strip paint from metal or wood objects in the area where you worked?	
	Yes	
	No	[go to 6.7]
	DK	[go to 6.7]
6.6.1	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	
6.7	In this job, did you ever use glues or adhesives?	
	Yes	
	No	[go to 6.8]
	DK	[go to 6.8]

6.7.1	How many hours per week did you do this?	
0.7.1	< 2	
	2 - 9	
	10 - 19	
	20 or more	
	DK	
6.7.2	What material were the things you were gluing made of? (allow	
0.7.2	multiple)	
	Wood	
	Metal	
	Plastic	
	Paper	
	Fabrics	
	Other	
	DK	
6.7.3	Was there a local exhaust system to remove the dust, fumes or vapors that was produced?	
	Yes	
	No	
	DK	
6.7.4	Did you use water-based glues or adhesives, for example, vinyl or	
	acrylic resins?	
	Yes	
	No	[go to 6.7.5]
	DK	[go to 6.7.5]
6.7.4.1	How many hours per week did you do this?	10
	< 2	
	2 - 9	
	10 - 19	
	20 or more	
	DK	
6.7.5	Did you use glues or adhesives that you heated with a gun or other	
0.7.5	heated device?	
	Yes,	
	No	[go to 6.7.6]
	DK	[go to 6.7.6]
6.7.5.1	How many hours per week did you do this?	
	< 2	
	2 - 9	
	10 - 19	
	20 or more	
	DK	
•	•	

6.7.6	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	[go to 6.7.7]
	DK	[go to 6.7.7]
6.7.6.1	How many hours per week did you do this?	
	< 2	
	2 - 9	
	10 - 19	
	20 or more	
	DK	
6.7.7	Did you use glues or adhesives that require mixing two parts of the	
	glue together before applying? (epoxy resins)	
	Yes	
	No	[go to 6.7.8]
	DK	[go to 6.7.8]
6.7.7.1	How many hours per week did you do this?	
	< 2	
	2 - 9	
	10 - 19	
	20 or more	
	DK	
6.7.8	Did you use urea, phenol or melamine-based glues or adhesives?	
	Yes	
	No	[go to 6.8]
	DK	[go to 6.8]
6.7.8.1	How many hours per week did you do this?	
	< 2	
	2 - 9	
	10 - 19	
	20 or more	
	DK	
6.8	Did other workers use glues or adhesives in the area where you	
	worked?	
	Yes	[co to C 0]
	No DV	[go to 6.9]
6.0.1	DK	[go to 6.9]
6.8.1	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	
	l	l

6.9	In this job, did you ever handle or use particle board, plywood, or veneered wood?	
	Yes	
	No	[go to 6.10]
	DK	[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	[go to 6.11]
	DK	[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	[go to 7]
	DK	[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	

1 What did the employer make? (allow multiple) Paints Pesticides or fertilizers Drugs or pharmaceuticals Dyes or pigments Other chemicals		CHEMICAL INDUSTRY (CHI) MODULE		
Pesticides or fertilizers Drugs or pharmaceuticals Dyes or pigments Dyes or possible or pigments Dyes or possible or process Dyes or possible 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 Dyes or pigments Dyes or pigme	1	What did the employer make? (allow mult	tiple)	
Drugs or pharmaceuticals Dyes or pigments Other chemicals DK  1.1 Did the company make fumigants?  Yes No DK  1.2 Did the company make insecticides? Yes No DK  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  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  Indoors Igo to 2.2.1] Indoors Igo to 2.2.1]		Pain	ts	
Dyes or pigments Other chemicals DK  Igo to 2] [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  1.3 Did the company make vaccines? Yes No DK  1.4 Did the company make vaccines? Yes No DK  1.5 Did the company make vaccines? Yes No DK  1.6 Did the company make antiseptics, germicides or antibacterials? Yes No DK  1.7 Did the company make antiseptics, germicides or antibacterials? Yes No DK  1.8 Did the company make antiseptics, germicides or antibacterials? Yes No DK  1.9 Ligo to 2.1-2.6] Igo to 2.1-2.12] Igo to 2.1-2.13 Igo to 2.1-2.14] Igo to 2.1-2.14] Igo to 2.1-2.14] Igo to 2.1-2.14] Igo to 3] Igo to 3] Indoors Outdoors Both DK  2.1 Did you spend time in a control room? Yes No Igo to 2.2.1]		Pest	icides or fertilizers	[go to 1.1-1.2]
Other chemicals DK [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 [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  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 [go to 2.2.1]		Drug	gs or pharmaceuticals	[go to 1.3-1.4]
DK [go to 2]  1.1 Did the company make fumigants? Yes No DK  1.2 Did the company make insecticides? Yes No DK  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  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		Dyes	s or pigments	[go to 2]
1.1 Did the company make fumigants?  Yes No DK  1.2 Did the company make insecticides?  Yes No DK  1.3 Did the company make vaccines?  Yes No DK  1.4 Did the company make vaccines?  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  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		Othe	er chemicals	[go to 2]
Yes No DK  1.2 Did the company make insecticides? Yes No DK  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  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 [go to 2.1.2.1] [go to 2.15-2.18] [go to 3] [go to 3]		DK		[go to 2]
1.2 Did the company make insecticides?  Yes  No  DK  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  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  [go to 2.2.1]	1.1	Did the company make fumigants?		
DK  1.2 Did the company make insecticides?  Yes  No  DK  [go to 2]  [go to 2]  DK  [go to 2]  I.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  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  [go to 2.12.2.1]		Yes		
1.2 Did the company make insecticides?  Yes No DK  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  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  [go to 2.1-2.6]		No		
Yes No DK [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  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		
No DK [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  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  [go to 2.1-2.6] [go to 2.1-2.6] [go to 2.1-2.6] [go to 2.1-2.6] [go to 2.1-2.12] [go to 3.1] [go to 3.1] [go to 3.1] [go to 3.1] [go to 3.2.1]	1.2	Did the company make insecticides?		
DK [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  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  [go to 2.1-2.6]		Yes		[go to 2]
DK [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  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  [go to 2.1-2.6]		No		_
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  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  [go to 2.1-2.6]  [go to 2.1-2.6]  [go to 2.7-2.12]  [go to 2.7-2.12]  [go to 2.13-2.14]  [go to 3]  [go to 3]  [go to 3]		DK		_
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  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 [go to 2.1-2.6] [go to 2.1-2.6] [go to 2.7-2.12] [go to 2.7-2.12] [go to 2.13-2.14] [go to 3] [go to 3] [go to 3] [go to 3]	1.3	Did the company make vaccines?		1
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  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  [go to 2.1-2.6]				
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  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 [go to 2.1-2.6]		No		
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 2.13-2.14] [go to 2.13-2.14] [go to 3] [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 [go to 2.2.1]		DK		
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 2.13-2.14] [go to 2.13-2.14] [go to 3] [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 [go to 2.2.1]	1.4	Did the company make antiseptics, germic	cides or antibacterials?	
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  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  [go to 2.1-2.6] [go to 2.7-2.12] [go to 2.7-2.12] [go to 2.13-2.14] [go to 3] [go to 3] [go to 3] [go to 3]				
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  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  [go to 2.1-2.6]  [go to 2.7-2.12]  [go to 2.7-2.12]  [go to 2.13-2.14]  [go to 3]  [go to 3]  [go to 3]		No		
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  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  [go to 2.1-2.6]  [go to 2.7-2.12]  [go to 2.13-2.14]  [go to 3]  [go to 3]  [go to 3]		DK		
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  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  [go to 2.1-2.6]  [go to 2.7-2.12]  [go to 2.13-2.14]  [go to 3]  [go to 3]  [go to 3]	2	How would you best describe your job at	this employer?	
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  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  [go to 2.7-2.12]  [go to 2.13-2.14]  [go to 3]  [go to 3]  [go to 3]			• •	[go to 2.1-2.6]
tools, property or utilities) Quality Control, Environmental Control, Engineering or Research Shipping, Receiving or Storage Administration DK  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  [go to 2.13-2.14] [go to 2.15-2.18] [go to 3] [go to 3]		into products or finished goods)	·	
Quality Control, Environmental Control, Engineering or Research Shipping, Receiving or Storage Administration DK  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  [go to 2.13-2.14] [go to 2.15-2.18] [go to 3]  [go to 3]		Maintenance or Utilities (maintain o	or repair equipment,	[go to 2.7-2.12]
Research Shipping, Receiving or Storage Administration DK  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  [go to 2.15-2.18] [go to 3]  [go to 3]  [go to 3]				
Shipping, Receiving or Storage Administration DK  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  [go to 2.15-2.18] [go to 3]  [go to 3]  [go to 3]  [go to 2.15-2.18] [go to 3]  [go to 2.15-2.18] [go to 3]  [go to 2.1]		•	trol, Engineering or	[go to 2.13-2.14]
Administration DK  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  [go to 3] [go to 3] [go to 3] [go to 2.2.1]				[aa ta 2 15 2 10]
DK [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				-
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 [go to 2.2.1]				
primarily indoors or outdoors?  Indoors Outdoors Both DK  2.2 Did you spend time in a control room? Yes No [go to 2.2.1]	2.1		ما معنام ما معنام ما معنام ما	[go to 3]
Indoors Outdoors Both DK  2.2 Did you spend time in a control room? Yes No [go to 2.2.1]	2.1		ted making chemicals	
Outdoors Both DK  2.2 Did you spend time in a control room? Yes No [go to 2.2.1]		· · · · · · · · · · · · · · · · · · ·	ors	
Both DK  2.2 Did you spend time in a control room? Yes No  [go to 2.2.1]				
2.2 Did you spend time in a control room?  Yes  No  [go to 2.2.1]				
Yes [go to 2.2.1] No		DK		
No	2.2	Did you spend time in a control room?		
		Yes		[go to 2.2.1]
DK		No		
		DK		

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 contr	ol
2.3	room)?	
	Yes	[to go 2.3.1]
	No	
	DK	
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 o	r
	that was in the area where you worked?	
	Closed (meaning that the	
	equipment had covers to	
	them and pipes were used	d
	to transport most of the	
	materials)	
	Open (no covers on the	_
	equipment and pipes wer not used)	e
	Both	
	DK	
2.5	Did you add chemicals by any means (hand, scoop, shovel, or b	v -
2.5	emptying bags, drums, or other containers) into the equipment	
	Yes	[go to 2.5.1]
	No	.0
	DK	
2.5.1	[Ask Vent Mini-module]	
2.6	Did you pack or package chemicals?	
	Yes	[go to 2.6.1-2.6.2]
	No	[go to 3]
	DK	[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	s or production line for	
	testing purposes?		
		'es	[go to 2.13.1]
		No	
		DK	
2.13.1	How many hours per week did you do		
		< 2	
		2 - 9	
	1	10 - 19	
	2	20 or more	
		DK .	
2.14	Did you perform chemical or physical t samples?	tests on process or product	
	Y	'es	[go to 2.14.1]
	N	No	[go to 3]
	C	OK	[go to 3]
2.14.1	How many hours per week did you do	this?	
	<	: 2	[go to 3]
	2	2 - 9	[go to 3]
	1	10 - 19	[go to 3]
	2	20 or more	[go to 3]
		OK	[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]		
	·	· · · · · · · · · · · · · · · · · · ·	

	DRY CLEANING TEXTILE INDUSTRY MODULE	
1	In this job, what best describes your work location?	
	A cleaning service where fabric and cloth items were washed or dry cleaned	[go to SECTION A]
	A mill, factory, workshop or warehouse where yarn,	[go to SECTION B]
	textiles and clothing were made, packaged or	
	shipped	
	None of the above	[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	[go to A.2.1-A.2.3]
	No	
	DK	
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	[go to A.2.1.1]
	No	
	DK	
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	, ,	
	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	[go to A.2.2.1]
	No	[go to A.2.2.1]
	DK	
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	

	multiple)	
	Perchloroethylene (perc) or tetrachloroethylene (tetra)?	
	Trichloroethylene (TCE)?	
	Trichloroethane (TCA)?	
	Carbon tetrachloride?	
	Stoddard solvent?	
	Gasoline?	
	Something else?	
	DK	
A.3	Did you ever spot clean fabric items?	[
	Yes	[go to A.3.1-A.3.2]
	No	
	DK	
A.3.1	About how many items did you spot clean?	
	15 items/week or less	
	15 to 100 items/week	
	more than 100 items/week	
	DK	
A.3.2	To spot clean, what chemicals did you use? Did you use? (allow	
	multiple)	
	Perchloroethylene (perc) or tetrachloroethylene (tetra)?	
	Trichloroethylene (TCE)? Trichloroethane (TCA)?	
	Carbon tetrachloride?	
	Stoddard solvent?	
	A remover formulated to remove paint, grease or oils?	
	Gasoline?	
	Something else?	
	DK	
A.4	In this job, did you ever repair or maintain equipment or	
7	property?	
	Yes	[go to A.4.1-A.4.7]
	No	,
	DK	
A.4.1	Did you ever repair the dry cleaning equipment or maintain the	
7	dry cleaning fluid?	
	Yes	[go to A.4.1.1]
	No	1
	DK	
A.4.1.1	How many hours per week did you do this?	
7	< 2	
	2 - 9	
	10 - 19	
	20 or more	
	DK	
		l

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	[go to SECTION C]
	No	[go to SECTION B.2.2]
	DK	[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)	[go to C.3.1 - C.3.2]
	Maintenance or Utilities (maintain or repair equipment, tools, property or utilities)	[go to C.3.3-C.3.8]
	Quality Control, Environmental Control, Engineering or Research	[go to C.4]
	Shipping, Receiving or Storage	[go to C.3.9-C.3.12]
	Administration	[go to C.4]
	DK	[go to C.4]
C 2 1	Was the leather or leather product from animal hides or aline an	
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  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  Animal hide [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.3.1.1-C.3.1.12] [go to C.3.1.1.1-C.3.1.1.3]
Both Something else DK  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  [go to C.3.1.7 - C.3.1.12] [go to C.4]  [go to C.4]  [go to C.3.1.1.1-C.3.1.1.12]
Something else DK  [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  [go to C.3.1.1.1-C.3.1.1.3]
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 [go to C.3.1.1.1-C.3.1.1.3]
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 [go to C.3.1.1.1-C.3.1.1.3]
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 [go to C.3.1.1.1-C.3.1.1.3]
and tanning done to the hides and skins?  Already tanned  Hair still on/needed tanning [go to C.3.1.1.1-C.3.1.1.3]
Hair still on/needed tanning [go to C.3.1.1.1-C.3.1.1.3]
Other
DK
C.3.1.1.1 Did you work in the area where the hide or skin was prepared for
tanning?
Yes [go to C.3.1.1.1.1]
No
DK
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 [go to C.3.1.1.2.1]
No
DK
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 [go to C3.1.1.3.1]
No
DK
C.3.1.1.3.1 Did you apply the chemicals to stuff or fat liquor the leather?
Yes [go to C.3.1.1.3.1.1- C.3.1.1.3.1.2]
No
DK

C.3.1.1.3.1.1	How many hours per week did you do this?	
C.3.1.1.3.1.1		
	< 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		
C.3.1.2	Did you apply a chemical to the leather?	[ +- 6 2 4 2 4]
	Yes	[go to C.3.1.2.1]
	No DV	
	DK	
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	[go to C.3.1.3.1]
	No	
	DK	
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	[go to C.3.1.4.1]
	No	
	DK	
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	[go to C.3.1.5.1]
	No	[80 to 0.3.1.3.1]
	DK	
C.3.1.5.1	How many hours per week did you do work in this area?	
0.0.1.5.1	< 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	[go to C.3.1.6.1]
	No	
	DK	
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	[go to C 2 1 7 1 2 1 7 2]
	Hair still on/needed tanning Other	[go to C.3.1.7.1-3.1.7.3]
	DK	
C.3.1.7.1	Did you work in the area where the hide or skin was prepared for	
C.3.1.7.1	tanning?	
	Yes	[go to C.3.1.7.1.1]
	No	10
	DK	
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	[go to C.3.1.7.2.1]
	No	
1	•	·

	DΚ	
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	[go to C.3.1.7.3.1]
	No	
	DK	
C.3.1.7.3.1	Did you apply the chemicals to stuff or fat liquor the leather?	
	Yes	[go to C.3.1.7.3.1.1- C.3.1.7.3.1.2]
	No	
	DK	
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	[go to C.3.1.8.1]
	No	,
	DK	
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	[go to C.3.1.9.1]
	No	
	DK	

C.3.1.9.1	How many hours per week did you do work in this area?	
0.0.2.0.2	< 2	
	2 - 9	
	10 - 19	
	20 or more	
	DK	
C.3.1.10	Did you work in the area where chemicals were mixed to make a	
C.S.1.10	leather-like resin or plastic?	
	Yes	[go to C.3.1.10.1]
	No	
	DK	
C.3.1.10.1	How many hours per week did you do work in this area?	
	<2	
	2 - 9	
	10 - 19	
	20 or more	
	DK	
C.3.1.11	Did you work in the area where chemicals were heated to make a	
	leather-like resin or plastic?	
	Yes	[go to C.3.1.11.1]
	No	
	DK	
C.3.1.11.1	How many hours per week did you do work in this area?	
	< 2	
	2 - 9	
	10 - 19	
	20 or more	
	DK	
C.3.1.12	Did you work in the area where chemicals were extruded to make	
	a leather-like resin or plastic?	
	Yes	[go to C.3.1.12.1]
	No	
	DK	
C.3.1.12.1	How many hours per week did you do work in this area?	
	< 2	
	2 - 9	
	10 - 19	
	20 or more DK	
C.3.2	Did you work in the area where the leather pieces were glued	
C.3.2	together or glued to metal or plastic pieces?	
	Yes	[go to C.3.2.1 - C.3.2.2]
	No	[0
	DK	

C.3.2.1	How many hours per week did you do work in this area?	
0.3.2.1	< 2	
	2 - 9	
	10 - 19	
	20 or more	
	DK	
C.3.2.2	Did you do the gluing?	
	Yes	[go to C.3.2.2.1]
	No	10
	DK	
C.3.2.2.1	How many hours per week did you do this?	
	< 2	[go to C.4]
	2 - 9	[go to C.4]
	10 - 19	[go to C.4]
	20 or more	[go to C.4]
	DK	[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?	
	Production (make, assemble, or process materials or	[go to B.2.2.1 - 2.2.8]
	parts into products or finished goods)	
	Maintenance or Utilities (maintain or repair equipment,	[go to B.2.2.9-B.2.2.15]
	tools, property or utilities)	[ , , , , , , , , , , , , , , , , , , ,
	Quality Control, Environmental Control, Engineering or Research	[go to B.2.2.16-B.2.2.17]
	Shipping, Receiving or Storage	[go to B.2.2.18-B.2.2.22]
	Administration	[END]
	DK	[END]
B.2.2.1	What was the product made of ? (allow multiple)	-
	Cotton	
	Wool	
	Man-made or synthetic	
	Something else	
	DK	

D 2 2 2	Did you work in the area where couring or cleaning was done?	
B.2.2.2	Did you work in the area where scouring or cleaning was done?	
	Yes	[go to 2.2.2.1-2.2.2.2]
	No	
	DK	
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	[go to B.2.2.3.1]
	No	
	DK	
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	[go to B.2.2.4.1]
	No	
	DK	
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	
3.2.2.3	other finishing operations and inspecting of the products was	
	done?	
	Yes	[go to B.2.2.5.1-B.2.2.5.2]
	No	
	DK	
		I .

		T
B.2.2.5.1	How many hours per week did you do work in this area?	
	< 2	
	2 - 9	
	10 - 19	
	20 or more	
	DK	
B.2.2.5.2	While working in this area, did you spot clean the fabrics or	
	clothing?	
	Yes	[go to B.2.2.5.1-
		B.2.2.2.5.2]
	No	
	DK	
B.2.2.2.5.1	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.2.2.5.2	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?	
	Yes	[go to B.2.2.6.1-B.2.2.6.2]
	No	
	DK	
B.2.2.6.1	How many hours per week did you do work in this area?	
	< 2	
	2 - 9	
	10 - 19	
	20 or more	
	DK	
B.2.2.6.2	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 co	lor to the fabric?	
	Yes		[go to B.2.2.7.1]
	No		
	DK		
B.2.2.7.1	What chemicals did you use to do this? (allow	v multiple)	
	Carbon tetrachloride		
	Trichloroethylene		
	Trichloroethane		
	Chloroform		
	Perchloroethylene (perc) or tetrach	oroethylene (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 pro	duction line for	
	testing purposes?		
	Yes		[go to B.2.2.16.1]
	No		
	DK		
B.2.2.16.1	How many hours per week did you do this?		
	< 2		
	2 - 9		
	10 - 19		
	20 or m	ore	
	DK		
B.2.2.17	Did you perform chemical or physical tests or samples?	n process or product	
	Yes		[go to B.2.2.17.1]
	No		[END]
	DK		[END]

B.2.2.17.1	How many hours per week did you do this?	
	< 2	[END]
	2 - 9	[END]
	10 - 19	[END]
	20 or more	[END]
	DK	[END]
D 2 2 10		[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?	
	Production (make, assemble, or process materials or	[go to B.2.3.1 - B.2.3.8]
	parts into products or finished goods)	
	Maintenance or Utilities (maintain or repair equipment,	[go to B.2.3.9-B.2.3.15]
	tools, property or utilities)	[
	Quality Control, Environmental Control, Engineering or Research	[go to B.2.3.16-B.2.3.17]
	Shipping, Receiving or Storage	[go to B.2.3.18-B.2.3.22]
	Administration	
		[END]
D 2 2 4	DK	[END]
B.2.3.1	What was the product made of ? (allow multiple)	
	Cotton	
	Wool	
	Man-made or synthetic	
	Something else	
	DK	
B.2.3.2	Did you work in the area where scouring or cleaning was done?	
	Yes	[go to B.2.3.2.1-B.2.3.2.2]
	No	
	DK	
B.2.3.2.1	How many hours per week did you do work in this area?	
	< 2	
	2 - 9	
	10 - 19	
	20 or more	
	DK	
B.2.3.2.2	Was perchloroethylene (perc) or tetrachloroethylene (tetra) used to scour or clean the products?	
	Yes	
	No	
	DK	
1	DIX	

B.2.3.3	Did you work in the area where dyeing was done?	
D.2.3.3	Yes	[go to B.2.3.3.1]
	No	[go to b.2.3.3.1]
	DK	
B.2.3.3.1	How many hours per week did you do work in this area?	
B.2.3.3.1	< 2	
	2 - 9	
	10 - 19	
	20 or more	
D 2 2 4	DK	
B.2.3.4	Did you work in the area where printing was done?	[ +- D 2 2 4 4]
	Yes	[go to B.2.3.4.1]
	No	
	DK	
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	[go to B.2.3.5.1-B.2.3.5.2]
	No DV	
D 2 2 5 4	DK	
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	[go to B.2.3.5.2.1-
	res	B.2.3.5.2.2]
	No	D.2.3.3.2.2j
	DK	
B.2.3.5.2.1	About how many items did you spot clean?	
5.2.3.3.2.1	15 items/week or less	
	15 to 100 items/week	
	More than 100 items/week	
	DK	
	DIK	<u> </u>

B.2.3.5.2.2	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.2.3.6	Did you work in the area where fabric was made resistant to wrinkles, flame, stains, soil, shrinkage, water, moths, mildew, or something else?	
	Yes	[go to B.2.3.6.1-B.2.3.6.2]
	No	
	DK	
B.2.3.6.1	How many hours per week did you do work in this area?	
	< 2	
	2 - 9	
	10 - 19	
	20 or more	
	DK	
B.2.3.6.2	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.2.3.7	Did you clean the screens used to transfer color to the fabric?	
	Yes	[go to B.2.3.7.1]
	No	
	DK	
B.2.3.7.1	What chemicals did you use to do this? (Allow multiple)	
	Carbon tetrachloride	
	Trichloroethylene	
	Trichloroethane	
	Chloroform	
	Perchloroethylene (perc) or tetrachloroethylene (tetra)	
	Some other chemical DK	
	טע	

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	[go to 2.3.16.1]
	No	
	DK	
B.2.3.16.1	How many hours per week did you do this?	
	< 2	
	2 - 9	
	10 - 19	
	20 or more	
D 2 2 47	DK	
B.2.3.17	Did you perform chemical or physical tests on process or product samples?	
	Yes	[go to 2.3.17.1]
	No	[END]
	DK	[END]
B.2.3.17.1	How many hours per week did you do this?	
	< 2	[END]
	2 - 9	[END]
	10 - 19	[END]
	20 or more	[END]
	DK	[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]	

	EMBALMER (EM) MODULE	
1	Did you perform or assist with embalmings?	
	Yes	[go to 1.1-1.2]
	No	
	DK	
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]	

	FOUNDRY INDUSTRY (FOI) MODULE	
1	How would you best describe your job at this employer?	
	Production (make, assemble, or process materials or	[go to 2]
	parts into products or finished goods)	
	Maintenance or Utilities (maintain or repair equipment,	[go to 1.1-1.6]
	tools, property or utilities)	
	Quality Control, Environmental Control, Engineering or Research	[go to 1.7-1.8]
	Shipping, Receiving or Storage	[go to 1.9-1.12]
	Administration	[go to 2]
	DK	[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	10 1
	testing purposes?	
	Yes	[go to 1.7.1]
	No	
	DK	
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	[go to 1.8.1]
	No	[go to 2]
	DK	[go to 2]
1.8.1	How many hours per week did you do this?	
	< 2	[go to 2]
	2 - 9	[go to 2]
	10 - 19	[go to 2]
	20 or more	[go to 2]
	DK	[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?	
	Yes	[go to 2.1-2.5]
	No	[go to 3]
	DK	[go to 3]
2.1	Did you ever spend time working in the core making area?	
	Yes	[go to 2.1.1-2.1.3]
	No	
	DK	
2.1.1	How many hours per week did you do this?	
	< 2	
	2 - 9	
	10 - 19	
	20 or more	
	DK	
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.	
	Heated in an oven or	
	furnace	
	Chemicals were used	
	Both	
	Other	
	DK	
2.1.3	Did you ever run a muller or other machine to mix sand and	
	chemicals used to make the core ?	
	Yes	[go to 2.1.3.1 - 2.1.3.3]
	No	
	DK	
2.1.3.1	How many hours per week did you do this?	
	< 2	
	2 - 9	
	10 - 19	
	20 or more	
	DK	
2.1.3.2	What chemicals were used to make the core? Was it? (allow	
	multiple)	
	Epoxy resins	
	Phenolic resins	
	Urethane resins	
	Furan resins	
	Isocyanates	

1	Formaldehyde	1
	Something else	
	DK	
2.1.3.3	[Vent Mini-module]	
2.2	Did you ever spend time working in the mold making area?	
	Yes	[go to 2.2.1-2.2.5]
	No	[80 to 1:1:1 1:1:0]
	DK	
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]	
	Did the molds have to be heated in an oven or furnace before	
2.2.3	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 san	d?
	Yes	[go to 2.2.4.1]
	No	
	DK	
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?	
2.2.3	Yes	[go to 2.2.5.1]
	No	[80 to 2.2.3.1]
	DK	
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	[go to 2.3.1]
	No	
	DK	
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	[go to 2.4.1]
	No	
	DK	
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	[go to 2.5.1]
	No	
	DK	
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]	

	FURNITURE INDUSTRY (FUI) MODULE	
1	What type of furniture did your employer make? (allow multiple)	
	Plastic furniture?	[go to 1.1]
	Wood furniture?	[go to 1.2]
	Metal furniture?	[go to 2]
	Kitchen or bathroom countertops?	[go to 1.3-1.6]
	Another type of furniture?	[go to 2]
	DK	[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	[go to 1.3.1-1.3.2]
	No	
	DK	
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	[go to 1.4.1]
	No	
	DK	

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	[go to 1.5.1]
	No	
	DK	
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	
1.0	pressed together?	
	Yes	[go to 1.6.1-1.6.2]
	No	[80 00 =101= 1101=]
	DK	
1.6.1	How many hours per week did you do work in this area?	
1.0.1	< 2	
	2 - 9	
	10 - 19	
	20 or more	
	DK	
1.6.2		
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?	5
	Yes	[go to 2.1-2.6]
	No	
	DK	
2.1	How many hours per week did you do work in this area?	
	< 2	
	2 - 9	
	10 - 19	
	20 or more	
	DK	
<u> </u>	·	

2.2	Did you ever degrease the furniture?	)	
2.2	bid you ever degrease the farmeare.	Yes	[ask 2.2.1-2.2.2]
		No	[43K 2.2.1 2.2.2]
		DK	
2.2.1	Harring and harring a group all did on a d		
2.2.1	How many hours per week did you d		
		< 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	[go to 2.3.1-2.3.3]
		No	[80 to 2:0:1 2:0:0]
		DK	
2 2 1	How many hours nor wook did you d		
2.3.1	How many hours per week did you d		
		< 2	
		2 - 9	
		10 - 19	
		20 or more	
		DK	
2.3.2	What did you usually use to apply th	e 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 a	-	
		Yes	[go to 2.3.4.1]
		No	
		DK	
2.3.4.1	How many hours per week did other	-	
	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	[go to2.5.1-2.5.2]
		No	
		DK	
2.5.1	How many hours per week did you o	lo this?	
		< 2	
		2 - 9	
		10 - 19	
		20 or more	
		DK	
2.5.2	How did you usually apply the lacqu	er? (allow multiple)	
		Brush	
		Rag	
		Spray gun	
		Electrostatic gun	
		Roller	
		Dipping	
		Other	
		DK	
2.6	Did you ever apply wax to the furnit	ure?	
		Yes	[go to 2.6.1]
		No	
		DK	
2.6.1	How many hours per week did you o	lo this?	
		< 2	
		2 - 9	
		10 - 19	
		20 or more	
		DK	
3	Did you ever work in the area where	e paint, stains, varnishes,	
	lacquers, or waxes were removed?		
		Yes	[go to 3.1-3.2]
		No	
		DK	
3.1	How many hours per week did you o		
		< 2	
		2 - 9	
		10 - 19	
		20 or more	
		DK	
			1

			,
3.2	How did you usually remove it? Was i	t 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	[go to 4.1-4.2]
		No	
		DK	
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 mai	ntain equipment or	
	property??		
		Yes	[go to 6.1-6.3]
		No	
		DK	
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]		
			1

	GENERAL FARMING - FOOD INDUSTRY MODULE (LONG)	
1	In this job, what best describes your work location? (allow multiple)	
	A farm where crops were grown or livestock were raised	[go to SECTION A]
	A factory, warehouse, or processing center where food	[go to SECTION B]
	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 C -
		SECTION I]
	SECTION A [aGF]	
A.1	On the farms you worked, were crops raised to sell or to feed animals?	
	Yes	[go to A.1.1-A.1.4]
	No	
	DK	
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	[go to A.1.1.1-A.1.1.5]
	No	
	DK	
A.1.1.1	Did you apply herbicides or weed killers?	
	Yes	[go to A.1.1.1.4.1.1.3]
	No	
	DK	
A.1.1.1.1	On average, how many times a year did you apply herbicides or weed killers?	
	[number 0-1000]	
1111	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	[go to A.1.1.2.1-A.1.1.2.3]
	No	
	DK	
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	[go to A.1.1.3.1-A.1.1.3.3]
	No	
	DK	
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?	
A.1.1.5.2	[number 0-24]	
	DK	
A.1.1.3.3	Did you add kerosene, diesel fuel, Stoddard solvent or oil to the	
A.1.1.3.3	fumigants that you mixed?	
	Yes	
	No	
	DK	
A.1.1.4	Did you apply fungicides to kill mold or fungus?	
71,1,1,4	Yes	[go to A.1.1.4.1-A.1.1.4.3]
	No	[80 00 1121 112 112 112 112 112
	DK	
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	[go to A.1.1.5.1-A.1.1.5.3]
	No	
	DK	
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	
71.1.1.0	chemicals to kill weeds, bugs, fungus or molds, or rodents such as	
	rats?	
	Yes	[go to A.1.1.6.1]
	No	[80 to /]
	DK	
A 1 1 C 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	[go to A.1.2.1-A.1.2.3]
	No	
	DK	

A.1.2.1	On average, how many days a year did you apply it?	
71.1.2.1	[number 0-365]	
	DK	
A.1.2.2	On average, how many hours a day did you apply it?	
A.1.2.2	[number 0-24]	
	DK	
A.1.2.3	Did you add kerosene, diesel fuel, Stoddard solvent or oil to the	
A.1.2.3	weed killers you mixed?	
	Yes	
	No	
	DK	
A.1.3	Did you apply fertilizer to the crop?	
	Yes	[go to A.1.3.1-A.1.3.3]
	No	
	DK	
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	[go to A.1.4.1-A.1.4.4]
	No	
	DK	
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	
		1

A.1.4.4	Did you add kerosene, diesel fuel, Stodd chemical products you mixed?	iaru solveni of oli to the	
	Ye	ς.	
	No		
	Dk		
A.2	On the farms you worked, were animals		
	Ye		[go to A.2.1]
	No		
	Dk	(	
A.2.1	Were the animals ever housed in a build	ding?	
	Ye	=	[go to A.2.1.1]
	No	)	
	Dk	<	
A.2.1.1	Did you or anyone else ever fumigate th were housed?	e area where the animals	
	Ye	S	[go to A.2.1.1.1]
	No	)	-
	Dk	(	
A.2.1.1.1	What fumigant was used?		
	Fo	rmaldehyde	
	Ca	rbon tetrachloride	
	Ph	osphine	
	Ot	her fumigant	
	Dk	(	
A.3	In this job, did you ever repair or mainta property??	ain equipment or	
	Ye	S	[go to A.3.1-A.3.3]
	No	)	
	Dk	(	
A.3.1	How many hours per week did you do th	nis?	
	< 2	2	
	2 -	. 9	
	10	- 19	
	20	or more	
	Dk	(	
A.3.2	In this job, did you ever clean or degreas	se metal or plastic parts	
	with chemicals?	ς	[go to A.3.2.1-A.3.2.5]
	No		[80 (0 / 1.3.2.1 7.3.2.3]
	Dk		

A.3.2.1	How many hours per week did you do this?	
	< 2	
	2 - 9	
	10 - 19	
	20 or more	
	DK	
A.3.2.2	When you cleaned metal or plastic parts, what did you use? Did	
71.5.2.2	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	
A.3.2.3	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	
A.3.2.4	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	
A.3.2.5	Was there a local exhaust system to remove the dust, fumes or	
	vapors that was produced?	
	Yes	
	No DV	
A.3.2.6	DK  Did other workers clean or degrease parts in the area where you	
A.3.2.0	worked?	
	Yes	[go to A.3.2.6.1]
	No	[80 to 71.3.2.0.1]
	DK	
12261		
A.3.2.6.1	How many hours per week did other workers perform this task while you were working in this area?	
	while you were working in this area?	
	2-9	
	10-19	

	20 or more	
	DK	
A.3.3	In this job, did you ever handle or pump fuel?	
	Yes	[go to A.3.3.1]
	No	
	DK	
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,	[go to B.1.1-B.1.6]
	tools, property or utilities)	[80 to p.1.1-p.1.0]
	Quality Control, Environmental Control, Engineering or	
	Research	
	Shipping, Receiving or Storage	[go to B.1.7-B.1.10]
	Administration	
	DK	
B.1.1	In this job, did you ever clean or degrease metal or plastic parts with chemicals?	
	Yes	[go to B.1.1.1-B.1.1.5]
	No	
	DK	

B.1.1.1	How many hours per week did you d	lo this?	
	, ,	< 2	
		2 - 9	
		10 - 19	
		20 or more	
		DK	
B.1.1.2	When you cleaned metal or plastic p	arts, 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	
B.1.1.3	Were the chemicals at room temper	•	
	a tank, vat, or vapor degreaser? (allo	Room temperature	
		Heated in vapor degreaser	
		Heated in vapor degreaser	
		Other	
		DK	
B.1.1.4	How did you clean the parts? Did yo		
B.1.1.4	Thow did you clean the parts: Did yo	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	
B.1.1.5	Was there a local exhaust system to	remove the dust, fumes or	
	vapors that was produced?		
	'	Yes	
		No	
		DK	

B.1.1.6	Did other workers clean or degrease parts in the area where you worked?	
	Yes	[go to B.1.1.6.1]
	No	
	DK	
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	[go to B.1.2.1-B.1.2.5]
	No	
	DK	
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	
R 1 2 3	Did you paint indoors or inside a ship?	
D.1.2.3	Yes	[go to B.1.2.3.1-B.1.2.3.2]
	No	[80 to 5:1:2:0:1 5:1:2:0:2]
	DK	
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	[go to B.1.2.3.3.1]
	No	[80 00 0101010101]
	DK	
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	[go to B.1.2.4.1]
	No	
	DK	
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	[go to B.1.2.5.1]
	No	
	DK	
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	[go to B.1.3.1-B.1.3.2]
	No	
	DK	
B.1.3.1	How many hours per week did you do this?	
	< 2	
	2 - 9	
	10 - 19	
	20 or more	
	DK	

5.4.0.0	—	
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	[go to B.1.3.3.1]
	No	
	DK	
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	[go to B.1.4.1-B.1.4.8]
	No	
	DK	
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 ex	ample, vinyl or
	acrylic resins?	
	Yes	[go to B.1.4.4.1]
	No DV	
D 1 4 4 1	DK	
B.1.4.4.1	How many hours per week did you do this?	
	< 2	
	2 - 9	
	10 - 19	
	20 or more	
5445	DK	
B.1.4.5	Did you use glues or adhesives that you heated wit other heated device?	th a gun or
	Yes	[ go to B.1.4.5.1]
	No	
	DK	
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 a to both pieces being glued, let it dry for a short tim join the two pieces together?	
	Yes	[go to B.1.4.6.1]
	No	10000
	DK	
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
B.1.4.7	Did you use glues or adhesives that require mixing the glue together before applying? (epoxy resins)	
B.1.4.7	Did you use glues or adhesives that require mixing the glue together before applying? (epoxy resins)  Yes	two parts of [go to B.1.4.7.1]
B.1.4.7	Did you use glues or adhesives that require mixing the glue together before applying? (epoxy resins)  Yes  No	
	Did you use glues or adhesives that require mixing the glue together before applying? (epoxy resins)  Yes  No  DK	
B.1.4.7 B.1.4.7.1	Did you use glues or adhesives that require mixing the glue together before applying? (epoxy resins) Yes No DK How many hours per week did you do this?	
	Did you use glues or adhesives that require mixing the glue together before applying? (epoxy resins)  Yes  No  DK	

	20 or more	
	DK	
B.1.4.8	Did you use urea, phenol or melamine-based glues or adhesives?	
D.1.4.0	Yes	[go to B.1.4.8.1]
	No	[go to b.1.4.6.1]
	DK	
B.1.4.8.1	How many hours per week did you do this?	
D.1.4.0.1	< 2	
	2 - 9	
	10 - 19	
	20 or more	
	DK	
D 1 4 0		
B.1.4.9	Did other workers use glues or adhesives in the area where you worked?	
	Yes	[ask B.1.4.9.1]
	No	[438 2.1. 1.3.1]
	DK	
B.1.4.9.1	How many hours per week did other workers perform this task	
D.1. <del>4</del> .5.1	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	[go to B.1.5.1]
	No	
	DK	
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	[go to B.1.5.2.1]
	No	
	DK	

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	[go to B.1.6.1]
	No	
	DK	
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	[go to B.1.7.1-B.1.7.4]
	No	
	DK	
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	[go to B.1.7.3.1-B.1.7.3.2]
	No	
	DK	

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	[go to B.1.7.3.3.1]
	No	
	DK	
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	[go to B.1.7.1.4.1]
	No	
	DK	
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	[go to B.1.7.5.1]
	No	
	DK	
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	
	10-19 20 or more	

B.1.8	In this job, did you ever use glues or adhesives?	
5.1.0	Yes	[go to B.1.8.1-B.1.8.8]
	No	[60 to 5.1.6.1 5.1.6.6]
	DK	
B.1.8.1	How many hours per week did you do this?	
D.1.0.1	< 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
D.1.0.5	vapors that was produced?	Turnes of
	Yes	
	No	
	DK	
B.1.8.4	Did you use water-based glues or adhesives, for exam	ple, vinyl or
	acrylic resins?	
	Yes	[go to B.1.8.4.1]
	No	
	DK	
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 other heated device?	gun or
	Yes	[ go to B.1.8.5.1]
	No	
	DK	

B.1.8.5.1	How many hours per week did you do this?	
	< 2	
	2 - 9	
	10 - 19	
	20 or more	
	DK	
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?	
	Yes	[go to B.1.8.6.1]
	No	
	DK	
B.1.8.6.1	How many hours per week did you do this?	
	< 2	
	2 - 9	
	10 - 19	
	20 or more	
	DK	
B.1.8.7	Did you use glues or adhesives that require mixing two parts of	
	the glue together before applying? (epoxy resins)	
	Yes	[go to B.1.8.7.1]
	No	
	DK	
B.1.8.7.1	How many hours per week did you do this?	
	< 2	
	2 - 9	
	10 - 19	
	20 or more	
	DK	
B.1.8.8	Did you use urea, phenol or melamine-based glues or adhesives?	
	Yes	[go to B.1.8.8.1]
	No	
	DK	
B.1.8.8.1	How many hours per week did you do this?	
	<2	
	2 - 9	
	10 - 19	
	20 or more	
	DK	

B.1.8.9	Did other workers use glues or adhesives in the area where you	
Б.1.6.9	worked?	
	Yes	[ask B.1.8.9.1]
	No	[]
	DK	
B.1.8.9.1	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.1.9	In this job, did you ever handle or use particle board, plywood, or	
	venered wood?	
	Yes	[go to B.1.9.1]
	No	
	DK	
B.1.9.1	How many hours per week did you do this?	
	< 2	
	2 - 9	
	10 - 19	
	20 or more	
	DK	
B.1.9.2	Did other workers work with particle board, plywood, or	
	veneered wood in the area where you worked?	
	Yes	[go to B.1.9.2.1]
	No	
	DK	
B.1.9.2.1	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	
5.4.40	DK	
B.1.10	In this job, did you ever handle or pump fuel?	[
	Yes	[go to B.1.10.1]
	No	
	DK	

B.1.10.1	How many hours per week did you do this?	
5.1.10.1	< 2	
	2 - 9	
	10 - 19	
	20 or more	
D 2	DK	
B.2	Did you work in an area where preservatives were added to the food?	
	Yes	[go to B.2.1]
	No	
	DK	
B.2.1	How many hours per week did you do work in this area?	
	< 2	
	2 - 9	
	10 - 19	
	20 or more	
	DK	
B.3	Did you work in an area where disinfectants were added to the food?	
	Yes	[go to B.3.1]
	No	
	DK	
B.3.1	How many hours per week did you do work in this area?	
	< 2	
	2 - 9	
	10 - 19	
	20 or more	
	DK	
B.4	Did you work in an area where fumigants were used?	
5.4	Yes	[go to B.4.1]
	No	[go to b.4.1]
	DK	
B.4.1	How many hours per week did you do work in this area?	
D.4.1	< 2	
	2 - 9	
	10 - 19	
	20 or more	
	DK	
B.5	Were your hands ever immersed in a solvent, a solvent-based product, or fuel?	
	Yes	
	No	
	DK	
	Yes No	

B.6	Did you wear gloves while using solv	ents or solvent-based	
	products?	Yes	
		No	
		Not applicable - did not use	
		solvents	
		DK	
B.7	Did you clean your hands with a solv	ent, 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 deg with chemicals?	rease metal or plastic parts	
		Yes	[go to C.1.1-C.1.5]
		No	
		DK	
C.1.1	How many hours per week did you d		
		< 2	
		2 - 9	
		10 - 19	
		20 or more	
		DK	
C.1.2	When you cleaned metal or plastic p you use? (allow multiple)	arts, what did you use? Did	
		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 temper		
	a tank, vat, or vapor degreaser? (allo		
	, , ,	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)	
0.2.	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	[go to C.2.1]
	No	
	DK	
C.2.1	How many hours per week did other workers perform this task	
	while you were working in this area?	
	2-9	
	10-19	
	20 or more	
	DK	
D.1	SECTION D [Paint Mini-Module]	
D.1	In this job, did you ever use paint?	[go to D 1 1 D 1 F]
	Yes	[go to D.1.1-D.1.5]
	No Dr	
5.1.1	DK	
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	
1	Electrostatic gun	

	Spray gun	
	Dip item into paint	
	Other	
	DK	
D.1.3	Did you paint indoors or inside a ship?	+
D.1.3	Yes	[go to D.1.3.1-D.1.3.2]
	No	[go to D.1.3.1-D.1.3.2]
	DK	
D.1.3.1	How many hours per week did you do this?	
D.1.5.1	< 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	[go to D.1.3.3.1]
	No	
	DK	
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	[go to D.1.4.1]
	No	
	DK	
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?	
2.2	Yes	[go to D.2.1]
	No	100 10 5.2.21
	DK	
	DK	

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	[go to E.1.1-E.1.3]
	No	
	DK	
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	[go to E.2.1]
	No	
	DK	
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	[go to F.1.1-F.1.8]
	No	
	DK	

F.1.1	How many hours nor wook did you do this?	
	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, fu	mes or
	vapors that was produced?	
	Yes	
	No	
	DK	
F.1.4	Did you use water-based glues or adhesives, for example	e, vinyl or
	acrylic resins?	
	Yes	[go to F.1.4.1]
	No	
	DK	
F.1.4.1	How many hours per week did you do this?	
	< 2	
	2 - 9	
	10 - 19	
	10 - 19 20 or more	
F.1.5	20 or more  DK  Did you use glues or adhesives that you heated with a gu	in or
F.1.5	20 or more DK  Did you use glues or adhesives that you heated with a gu other heated device?	
F.1.5	20 or more DK  Did you use glues or adhesives that you heated with a gu other heated device? Yes	n or [ go to F.1.5.1]
F.1.5	20 or more DK  Did you use glues or adhesives that you heated with a gu other heated device?  Yes No	
	20 or more DK  Did you use glues or adhesives that you heated with a gu other heated device?  Yes No DK	
F.1.5	20 or more DK  Did you use glues or adhesives that you heated with a gu other heated device?  Yes  No  DK  How many hours per week did you do this?	
	20 or more DK  Did you use glues or adhesives that you heated with a gu other heated device?  Yes No DK  How many hours per week did you do this?  < 2	
	20 or more DK  Did you use glues or adhesives that you heated with a gu other heated device?  Yes No DK  How many hours per week did you do this?  < 2 2 - 9	
	20 or more DK  Did you use glues or adhesives that you heated with a gu other heated device?  Yes  No  DK  How many hours per week did you do this?  < 2 2 - 9 10 - 19	
	20 or more DK  Did you use glues or adhesives that you heated with a gu other heated device?  Yes  No  DK  How many hours per week did you do this?  < 2 2 - 9 10 - 19 20 or more	
	20 or more DK  Did you use glues or adhesives that you heated with a gu other heated device?  Yes  No  DK  How many hours per week did you do this?  < 2 2 - 9 10 - 19	

F.1.6	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	[go to F.1.6.1]
	No	
	DK	
F.1.6.1	How many hours per week did you do this?	
	< 2	
	2 - 9	
	10 - 19	
	20 or more	
	DK	
F.1.7	Did you use glues or adhesives that require mixing two parts of	
	the glue together before applying? (epoxy resins)	
	Yes	[go to F.1.7.1]
	No	
	DK	
F.1.7.1	How many hours per week did you do this?	
	< 2	
	2 - 9	
	10 - 19	
	20 or more	
	DK	
F.1.8	Did you use urea, phenol or melamine-based glues or adhesives?	
	Yes	[go to F.1.8.1]
	No	
	DK	
F.1.8.1	How many hours per week did you do this?	
	< 2	
	2 - 9	
	10 - 19	
	20 or more	
	DK	
F.2	Did other workers use glues or adhesives in the area where you worked?	
	Yes	[ask F.2.1]
	No	, ,
	DK	
F.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	
ı	1	·

	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	[go to G.1.1]
	No	
	DK	
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	[go to G.2.1]
	No	
	DK	
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	[go to H.1.1]
	No	
	DK	
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]	
1.1	Were your hands ever immersed in a solvent, a solvent-based product, or fuel?	
	·	
	Yes	
	Yes No	

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

	INDUSTRY SOLVENT (INSOL) MODULE	
1	How would you best describe your job at this employer?	
	Production (make, assemble, or process materials or	[go to 2]
	parts into products or finished goods)	
	Maintenance or Utilities (maintain or repair equipment,	[go to 1.1-1.6]
	tools, property or utilities)	
	Quality Control, Environmental Control, Engineering or	[go to 1.7-1.8]
	Research Shipping, Receiving or Storage	[go to 1.9-1.12]
	Administration	
	DK	[go to 2]
1.1	[Degrease Mini-Module]	[go to 2]
1.1	[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	10 2
	testing purposes?	
	Yes	[go to 1.7.1]
	No	
	DK	
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	[go to 1.8.1]
	No	[go to 2]
	DK	[go to 2]
1.8.1	How many hours per week did you do this?	
	< 2	[go to 2]
	2 - 9	[go to 2]
	10 - 19	[go to 2]
	20 or more	[go to 2]
	DK	[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]	

	LEATHER INDUSTRY (LEI) MODULE	
1	Did your employer make leather, make a leather product, or do	
	both?	
	Make leather	
	Make leather product	
	Both	
	DK	
2	What color was the leather? (allow multiple)	
	Brown	
	Pale cream or white	
	Other	
	DK	
3	How would you best describe your job at this employer?	
	Production (make, assemble, or process materials or	[go to 3.1 - 3.2]
	parts into products or finished goods)	
	Maintenance or Utilities (maintain or repair equipment,	[go to 3.3-3.8]
	tools, property or utilities)	
	Quality Control, Environmental Control, Engineering or	[go to 4]
	Research	
	Shipping, Receiving or Storage	[go to 3.9-3.12]
	Administration	[go to 4]
	DK	[go to 4]
3.1	Was the leather or leather product from animal hides or skins, or	
	was the leather synthetic or man-made?	[ +- 2 4 4 2 4 2]
	Animal hide	[go to 3.1.1-3.1.3]
	Synthetic or man-made	[go to 3.1.4-3.1.6]
	Both Compathing also	[go to 3.1.7 - 3.1.12]
	Something else	[go to 4]
	DK	[go to 4]
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	[go to 3.1.1.1-3.1.1.3]
	Other	[go to 3.1.1.1-3.1.1.3]
2111	DK	
3.1.1.1	Did you work in the area where the hide or skin was prepared for tanning?	
	Yes	[go to 3.1.1.1.1]
	No	[80 (0 3.1.1.1.1]
	DK	
21111		
3.1.1.1.1	How many hours per week did you do work in this area?	
	< 2	
	2 - 9	

I	10 - 19	
	20 or more	
	DK	
3.1.1.2	Did you work in the area where the hides and skins were tanned?	
	Yes	[go to 3.1.1.2.1]
	No	
	DK	
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	[go to 3.1.1.3.1]
	No	
	DK	
3.1.1.3.1	Did you apply the chemicals to stuff or fat liquor the leather?	
	Yes	[go to 3.1.1.3.1.1-3.1.1.3.1.2]
	No	
	DK	
3.1.1.3.1.1	How many hours per week did you do this?	
	< 2	
	2 - 9	
	10 - 19	
	20 or more	
3.1.1.3.1.2	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	[go to 3.1.2.1]
	No	
	DK	
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	1
5.1.5	out, stretched and softened?	
	Yes	[go to 3.1.3.1]
	No	
	DK	
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	[go to 3.1.4.1]
	No	
	DK	
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	[go to 3.1.5.1]
	No	
	DK	
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	[go to 3.1.6.1]
	No	[g0 t0 3.1.0.1]
	DK	
3.1.6.1	How many hours per week did you do work in this area?	
3.1.0.1	< 2	
	2 - 9	
	10 - 19	
	20 or more	
	DK	
L	1	1

2.4.7	Weather leather already toward an arrange and did hide an alia	1
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	5
	Hair still on/needed tanning	[go to 3.1.7.1-3.1.7.3]
	Other	
	DK	
3.1.7.1	Did you work in the area where the hide or skin was prepared for	
	tanning?	
	Yes	[go to 3.1.1.7.1]
	No	
	DK	
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	[go to 3.1.7.2.1]
	No	
	DK	
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	
3.217.3	fat liquored?	
	Yes	[go to 3.1.7.3.1]
	No	
	DK	
3.1.7.3.1	Did you apply the chemicals to stuff or fat liquor the leather?	
	Yes	[go to 3.1.7.3.1.1-
		3.1.7.3.1.2]
	No	-
	DK	
3.1.7.3.1.1	How many hours per week did you do this?	
	< 2	
	2 - 9	
	10 - 19	
	20 or more	
	DK	
L		1

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	
3.1.8	Did you apply a chemical to the leather?	
	Yes	[go to 3.1.8.1]
	No	
	DK	
3.1.8.1	How many hours per week did you do this?	
	< 2	
	2 - 9	
	10 - 19	
	20 or more	
	DK	
3.1.9	Did you work in the area where the tanned leather was dried, set	
	out, stretched and softened?	
	Yes	[go to 3.1.9.1]
	No	
	DK	
3.1.9.1	How many hours per week did you do work in this area?	
	< 2	
	2 - 9	
	10 - 19	
	20 or more	
	DK	
3.1.10	Did you work in the area where chemicals were mixed to make a leather-like resin or plastic?	
	Yes	[go to 3.1.10.1]
	No	
	DK	
3.1.10.1	How many hours per week did you do work in this area?	
	< 2	
	2 - 9	
	10 - 19	
	20 or more	
	DK	
3.1.11	Did you work in the area where chemicals were heated to make a leather-like resin or plastic?	
	Yes	[go to 3.1.11.1]
	No	
	DK	

3.1.11.1	How many hours per week did you do work in this area?	
	< 2	
	2 - 9	
	10 - 19	
	20 or more	
	DK	
3.1.12	Did you work in the area where chemicals were extruded to	
3.1.12	make a leather-like resin or plastic?	
	Yes	[go to 3.1.12.1]
	No	
	DK	
3.1.12.1	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 work in the area where the leather pieces were glued	
	together or glued to metal or plastic pieces?	
	Yes	[go to 3.2.1 - 3.2.2]
	No	
	DK	
3.2.1	How many hours per week did you do work in this area?	
	< 2	
	2 - 9	
	10 - 19	
	20 or more	
	DK	
3.2.2	Did you do the gluing?	
	Yes	[go to 3.2.2.1]
	No	
	DK	
3.2.2.1	How many hours per week did you do this?	
	< 2	
	2 - 9	
	10 - 19	
	20 or more	
	DK	
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]	
5.7	[Source terms telography	

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]

	LUMBER INDUSTRY (LUI) MODULE		
1	What did the employer do? (allow multiple)		
	Cut trees		[go to 2]
	Cut up logs in a sawmill		[go to 2]
	Make plywood, particle board, o	or other type of composite	[go to 1.1]
	board		
	Make veneered wood		[go to 1.2]
	Make cork		[go to 2]
	Something else		[go to 2]
	DK		[go to 2]
1.1	In the factory where plywood, particle b		
	composite board were made, did you o		
	Ye		[go to 1.1.1-1.1.3]
	No		
	Dk		
1.1.1	How many hours per week did you do to	his?	
	< ?	2	
	2 -	- 9	
	10	) - 19	
	20	O or more	
	Di	K	
1.1.2	What did the machine do?		
	Sa	aw	
	Co	oat or treat with chemicals	
	He	eat press	
	So	omething else	
	DH	K	
1.1.3	Did the machine have direct ventilation	that removed the dust,	
	fumes, or vapors from your area?		
	Ye		
	No		
	Dł		
1.2	In the factory where veneered wood wa	as made, did you operate	
	a machine?	••	[== to 4 2 4 4 2 2]
	Ye		[go to 1.2.1-1.2.3]
	No		
	Dh		
1.2.1	How many hours per week did you do the		
	< 7		
		- 9	
		) - 19	
		or more	
	Dh	K	

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 ventilat	ion that removed the dust,	
	fumes, or vapors from your area?		
		Yes	
		No	
		DK	
2	In this job, did you ever repair or ma	intain equipment or	
	property??		
		Yes	[go to 2.1-2.6]
		No	[go to 3]
		DK	[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]		

	OIL REFINING INDUSTRY (ORI)		
1	How would you best describe your job at t		
_	Production (make, assemble, or process materials or		[go to 2]
	parts into products or finished goods)		[50 to 2]
	Maintenance or Utilities (maintai	•	[go to 1.1-1.6]
	tools, property or utilities)		[80 to 1:1 1:0]
	Quality Control, Environmental C	ontrol, Engineering or	[go to 1.7-1.8]
	Research		
	Shipping, Receiving or Storage		[go to 1.9-1.12]
	Administration		[go to 2]
	DK		[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	10 1
	testing purposes?	p. 0 a a c c c c c c c c c c c c c c c c c	
	Yes		[go to 1.7.1]
	No		
	DK		
1.7.1	How many hours per week did you do this	?	
	< 2		
	2 - 9		
	10 - :	19	
	20 o	r more	
	DK		
1.8	Did you perform chemical or physical tests	on process or product	
	samples?		
	Yes		[go to 1.8.1]
	No		[go to 2]
	DK		[go to 2]
1.8.1	How many hours per week did you do this	?	
	< 2		[go to 2]
	2 - 9		[go to 2]
	10 -	19	[go to 2]
	20 o	r more	[go to 2]
	DK		[go to 2]
1.9	[Paint Mini-Module]		
1.10	[Glue Mini-Module]		
1.11	[Board Mini-Module]		
1.12	[Fuel Mini-Module]		
L	<u> </u>		1

processed to remove water, organic salts, and sulfur) Yes No DK  2.1 How many hours per week did you do work in this area? < 2 2 - 9 10 - 19 20 or more	
No DK  2.1 How many hours per week did you do work in this area?  < 2 2 - 9 10 - 19	
DK  2.1 How many hours per week did you do work in this area?  < 2 2 - 9 10 - 19	
2.1 How many hours per week did you do work in this area?  < 2 2 - 9 10 - 19	
< 2 2 - 9 10 - 19	
2 - 9 10 - 19	
10 - 19	
20 or more	
DK	
3 Did you work in CRACKING? (This is where cracking occurs)	
Yes [go to 3.1]	
No	
DK	
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 [go to 4.1]	
No	
DK	
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 [go to 5.1]	
No ligo to sizi	
DK	
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?		
	Ye	S	[go to 6.1]
	No	)	
	DK	<	
6.1	How many hours per week did you do w		
	< 2	2	
	2 -	. 9	
	10	- 19	
	20	or more	
	DK	<	
7	Did you work in the TANK FARM? (This i	s where the products are	
	stored)		f , 7.41
	Ye		[go to 7.1]
	No		
	Dk		
7.1	How many hours per week did you do w		
	< 2		
	2 -		
		- 19	
		or more	
	Dk		
8	Did you work in LOADING? (This is when	e barges, trains, trucks	
	were loaded) Ye	c	[go to 9 1]
	No.		[go to 8.1]
	DK		
8.1			
8.1	How many hours per week did you do w		
	2 -		
		· 9 · - 19	
		or more	
	DK	<b>\</b>	
9	[Hands mini-module]		

	PESTICIDE (PE) MODULE	
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	[go to 1.1-1.5]
	No	[go to 1.6]
	DK	[go to 2]
1.1	Did you apply herbicides or weed killers?	
	Yes	[go to 1.1.1-1.1.3]
	No	
	DK	
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	[go to 1.2.1-1.2.3]
	No	
	DK	
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	[go to 1.3.1-1.3.3]
	No	
	DK	

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?	
1.4	Yes	[go to 1 4 1 1 4 2]
		[go to 1.4.1-1.4.3]
	No	
	DK	
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	[go to 1.5.1-1.5.3]
	No	
	DK	
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	Did you work in an area where someone else appli chemicals to kill weeds, bugs, fungus or molds, or rats?	
	Yes	[go to 1.6.1]
	No	
	DK	
1.6.1	What type of chemicals were used? (allow multiple	le)
	Herbicides o	r weed killers
	Insecticides o	or bug killers
	Fumigants	
	Fungicides to	kill mold or
	fungus	
	Rodenticides	to kill rodents,
	such as rats	
	Something e	lse
	DK	
2	[Hands mini-module ]	

	PHOTOGRAPHIC INDUSTRY (PHI) MODULE	
1	Did your employer make photographic film?	
	Yes	[go to 1.1-1.4]
	No	[go to 2]
	DK	[go to 2]
1.1	How would you best describe your job at this employer?	
	Production (make, assemble, or process materials or	[go to 1.2]
	parts into products or finished goods)	
	Maintenance or Utilities (maintain or repair equipment,	[go to 1.1.1-1.1.6]
	tools, property or utilities)	
	Quality Control, Environmental Control, Engineering or	[go to 1.1.7-1.1.8]
	Research	[go to 1 1 0 1 1 12]
	Shipping, Receiving or Storage Administration	[go to 1.1.9-1.1.12] [go to 1.2]
	DK	[go to 1.2]
1.1.1		[80 to 1.2]
	[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]	f
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	[go to 1.1.7.1]
	No	[50 to 1.1.7.1]
	DK	
1.1.7.1	How many hours per week did you do this?	
1.1.7.1	< 2	
	2 - 9	
	10 - 19	
	20 or more	
	DK	
1.1.8	Did you perform chemical or physical tests on process or product	
1.1.6	samples?	
	Yes	[go to 1.1.8.1]
	No	[go to 1.2]
	DK	[go to 1.2]
1.1.8.1	How many hours per week did you do this?	-5 1
	< 2	[go to 1.2]
	2 - 9	[go to 1.2]
	10 - 19	[go to 1.2]
	20 or more	[go to 1.2]
	DK	[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	[go to 1.2.1]
	No	
	DK	
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	[go to 1.3.1]
	No	
	DK	
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	[go to 1.4.1]
	No	
	DK	
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	[go to 2.1]
	No	[50 to 2.1]
	DK	
2.1	Did you develop the film?	
2.1	Yes	[go to 2.1.1]
	No	100 10 =:=:±1
	DK	
	υK	

2.1.1	Did you use formaldehyde during the processing of the film?	
	Yes	[go to 2.1.1.1]
	No	
	DK	
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]	

	PLASTICS INDUSTRY (PLI) MODULE	
1	How would you best describe your job at this employer?	
	Production (make, assemble, or process materials or	[go to 2]
	parts into products or finished goods)	
	Maintenance or Utilities (maintain or repair equipme	ent, [go to 1.1-1.6]
	tools, property or utilities)	[ , , , 7, 4, 0]
	Quality Control, Environmental Control, Engineering Research	or [go to 1.7-1.8]
	Shipping, Receiving or Storage	[go to 1.9-1.12]
	Administration	[go to 2]
	DK	[go to 2]
1.1	[Degrease Mini-Module]	101
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	1.0 1
	testing purposes?	
	Yes	[go to 1.7.1]
	No	
	DK	
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 prod	uct
	samples?	[go to 1 9 1]
	Yes No	[go to 1.8.1] [go to 2]
	DK	[go to 2]
1.8.1	How many hours per week did you do this?	[80 to 2]
1.0.1	< 2	[go to 2]
	2 - 9	[go to 2]
	10 - 19	[go to 2]
	20 or more	[go to 2]
	DK	[go to 2]
1.9	[Paint Mini-Module]	10- 40 -1
1.10	[Glue Mini-Module]	
1.11	[Board Mini-Module]	
1.12	[Fuel Mini-Module]	

2	What type of plastics were being made by your employ	yer? (allow
	multiple) polystyrene	
	phenol-formalde	hyda
	polypropylene	nyde
		do
	urea-formaldehy	de
	polyester	
	melamine	
	Something else	
2	DK	
3	Did you work in the area where the plastic was being f	ormed,
	either by a mold machine or a press?  Yes	[go to 3.1]
	No	[go to 3.1]
2.4	DK	2
3.1	How many hours per week did you do work in this area	ar
	< 2	
	2 - 9	
	10 - 19	
	20 or more	
	DK	
4	Did you work in the finishing or packing area?	
	Yes	[go to 4.1]
	No	
	DK	
4.1	How many hours per week did you do work in this area	a?
	< 2	
	2 - 9	
	10 - 19	
	20 or more	
	DK	
5	Did you work in some other area?	
	Yes	[go to 5.1]
	No	
	DK	
5.1	How many hours per week did you do work in this area	a?
	< 2	
	2 - 9	
	10 - 19	
	20 or more	
	DK	

	PULP AND PAPER INDUSTRY (PPI) MODULE		
1	How would you best describe your job at this employ	er?	
	Production (make, assemble, or process ma	terials or	[go to 2]
	parts into products or finished goods)		
	Maintenance or Utilities (maintain or repair equipment,		[go to 1.1-1.6]
	tools, property or utilities)		
	Quality Control, Environmental Control, Eng	ineering or	[go to 1.7-1.8]
	Research		[1 0 1 12]
	Shipping, Receiving or Storage  Administration		[1.9-1.12] [go to 2]
	DK		[go to 2]
1.1			[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 productio	n line for	
	testing purposes?		[aa ta 1 7 1]
	Yes		[go to 1.7.1]
	No		
171	DK		
1.7.1	How many hours per week did you do this?		
	< 2		
	2 - 9 10 - 19		
	20 or more DK		
1.0		o or product	
1.8	Did you perform chemical or physical tests on proces samples?	s or product	
	Yes		[go to 1.8.1]
	No		[go to 2]
	DK		[go to 2]
1.8.1	How many hours per week did you do this?		101
	< 2		[go to 2]
	2 - 9		[go to 2]
	10 - 19		[go to 2]
	20 or more		[go to 2]
	DK		[go to 2]
1.9	[Paint Mini-Module]		10 1
1.10	[Glue Mini-Module]		
1.11	[Board Mini-Module]		
1.12	[Fuel Mini-Module]		
1.12	[ ac. min module]		

2	Did you work in a paper mill?	
_	Yes	[go to 2.1-2.4]
	No	[60 to 2.1 2.4]
	DK	
2.1	Did you work in an area where recycled paper was prepared for	
2.1	the papermaking process?	
	Yes	[go to 2.1.1]
	No	[80 to 2.1.1]
	DK	
2.1.1	Did you remove ink from waste paper?	
2.1.1	Yes	[go to 2.1.1.1]
	No	[go to 2.1.1.1]
2111	DK	
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	[go to 2.2.1]
	No	
	DK	
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	[go to 2.3.1]
	No	
	DK	
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	[go to 2.4.1]
	No	10
	DK	
	DIX	

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

	PRINTING INDUSTRY (PRI) MODULE	
1	How would you best describe your job at this employer?	
	Production (make, assemble, or process materials or	[go to 2]
	parts into products or finished goods)	
	Maintenance or Utilities (maintain or repair equipment,	[go to 1.1-1.6]
	tools, property or utilities)	
	Quality Control, Environmental Control, Engineering or	
	Research	[go to 1 7 1 10]
	Shipping, Receiving or Storage  Administration	[go to 1.7-1.10] [go to 2]
	DK	[go to 2]
1.1	[Degrease Mini-Module]	[go to 2]
1.2	[Paint Mini-Module]	
1.3	[Strip Mini-Module]	
1.4	[Glue Mini-Module]	
1.5	[Board Mini-Module]	[co to 2]
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	Did you ever work in the plate making, plate engraving, or screen preparation area?	
	Yes	[go to 2.1-2.3]
	No	[80 10 ====10]
	DK	
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 clean the printing plates?	
	Yes	[go to 2.2.1]
	No	
	DK	
2.2.1	How many hours per week did you do this?	
	< 2	
	2 - 9	
	10 - 19	
	20 or more	
	DK	

2.2.2	What chemicals did you use to clean the plates? (allow multiple) Carbon tetrachloride Trichloroethylene Trichloroethane Chloroform Perchloroethylene (perc) or tetrachloroethylene (tetra) Gasoline or other fuels Some other chemical DK  Did you wash or clean screens that are used in a silkscreen-like	
	process?	
	Yes	[go to 2.3.1-2.3.2]
	No	
	DK	
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 chemicals did you use to clean the screens? (allow multiple)	
	Carbon tetrachloride	
	Trichloroethylene	
	Trichloroethane	
	Chloroform	
	Perchloroethylene (perc) or tetrachloroethylene (tetra)	
	Gasoline or other fuels	
	Some other chemical	
	DK	
3	Did you ever work in the area where the ink was prepared?	
	Yes	[go to 3.1-3.2]
	No - · ·	
	DK	
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 prepare or mix the ink?	
	Yes	[go to 3.2.1-3.2.2]
	No	
	DK	

3.2.1	How many hours per week did you do this?	
3.2.1	< 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	[go to 4.1-4.2]
	No	10
	DK	
4.1	How many hours per week did you do this?	
4.1	< 2	
	2 - 9	
	10 - 19	
	20 or more	
	DK	
4.2	Did you run the press?	
	Yes	[go to 4.2.1]
	No	
	DK	
4.2.1	Did you wash or clean the plates or presses?	
	Yes	[go to 4.2.1.1-4.2.1.2]
	No	
	DK	
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	[go to 5.1-5.2]
	No	
	DK	
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	[go to 6.1-6.2]
	No	
	DK	
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	[go to 6.2.1]
	No	
	DK	
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]	
		•

	RUBBER INDUSTRY (RUI)		
1	How would you best describe your job at th		
	Production (make, assemble, or pro	ocess materials or	[go to 2]
	parts into products or finished goods)		
	Maintenance or Utilities (maintain	or repair equipment,	[go to 1.1-1.5]
	tools, property or utilities)		5
	Quality Control, Environmental Con Research	itrol, Engineering or	[go to 1.6-1.7]
	Shipping, Receiving or Storage		[go to 1.8-1.10]
	Administration		[go to 2]
	DK		[go to 2]
1.1	[Degrease Mini-Module]		[80 to 2]
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 pr	oduction line for	[80 t0 2]
1.0	testing purposes?	oddetion line for	
	Yes		[go to 1.6.1]
	No		10-1-1
	DK		
1.6.1			
	< 2		
	2 - 9		
	10 - 19	)	
	20 or r	nore	
	DK		
1.7	Did you perform chemical or physical tests of	n process or product	
	samples?		
	Yes		[go to 1.7.1]
	No		[go to 2]
	DK		[go to 2]
1.7.1	How many hours per week did you do this?		
	< 2		[go to 2]
	2 - 9		[go to 2]
	10 - 19		[go to 2]
	20 or r	nore	[go to 2]
	DK		[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	[go to 2.1]
	No	[80 to 2.1]
	DK	
2.1	How many hours per week did you do work in this area?	
2.1	< 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	[go to 3.1 - 3.3]
	No	
	DK	
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	[go to 3.3.1]
	No	
	DK	
3.3.1	[Degrease mini-module]	
4	Did you work in the curing area?	
	Yes	[go to 4.1]
	No	
	DK	
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 the finishing/ repair area?	
	Yes	[ask 5.1 - 5.2]
	No	
	DK	
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	Did you use a solvent or gasoline to 'polish' the rubber?	
	Yes	
	No	
	DK	
6	[Hands Mini-module]	

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

ſ	Deint thing on	1
	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 degrease	r
	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	
1.5.5	vapors that was produced?	
	Yes	
	No	
	DK	
1.3.6	Did other workers clean or degrease parts in the area where yo	Ш
1.5.0	worked?	u
	Yes	[go to 1.3.6.1]
	No	[60 00 -1010-]
	DK	
1.3.6.1	How many hours per week did other workers perform this task	
1.3.0.1	while you were working in this area?	
	< 2	
	2 - 9	
	10 - 19	
	20 or more	
1.1	DK	
1.4	In this job, did you ever use paint?	
	Yes	[go to 1.4.1-1.4.5]
	No	
	DK	
1.4.1	How many hours per week did you do this?	
	< 2	
	2 - 9	
•		•

1 1	10 -	19	
		r more	
	DK		
1.4.2	What did you usually use to apply the pai	nt? (allow multiple)	
	Brus		
	Roll		
	Elec	trostatic gun	
		y gun	
		tem into paint	
	Oth	•	
	DK		
1.4.3	Did you paint indoors or inside a ship?		
	Yes		[go to 1.3.1-1.3.2]
	No		
	DK		
1.4.3.1	How many hours per week did you do this	5?	
	< 2		
	2 - 9		
	10 -	19	
	20 0	r more	
	DK		
1.4.3.2	Was there a local exhaust system to remo	ve the dust, fumes or	
	vapors that was produced?		
	Yes		
	No		
	DK		
1.4.3.3	Did you paint in a production area of a ma	nufacturing plant?	
	Yes		[go to 1.4.3.3.1]
	No		
	DK		
1.4.3.3.1	How many hours per week did you do this	5?	
	< 2		
	2 - 9		
	10 -	19	
	20 o	r more	
	DK		
1.4.4	Did you paint outdoors?		
	Yes		[go to 1.4.4.1]
	No		
	DK		
1.4.4.1	How many hours per week did you do this	5?	
	< 2		
	2 - 9		
	10 -		
		r more	
	DK		

1.4.5	Did other workers use paints in the area where you worked?	
1.1.5	Yes	[go to 1.4.5.1]
	No	[80 to 1.4.5.1]
	DK	
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?	
1.5	Yes,	[go to 1.5.1-1.5.3]
	No	[go to 1.3.1-1.3.3]
	DK	
1.5.1	How many hours per week did you do this?	
1.5.1	< 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	[go to 1.5.3.1]
	No DK	
1.5.3.1	How many hours per week did other workers perform this task	
1.5.5.1	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	[go to 1.6.1]
	No	
	DK	

1.6.1	How many hours per week did you do this?		
	< 2		
	2 - 9		
	10 - 1	9	
	20 or		
	DK		
1.6.2	Did other workers work with particle board	nlywood or	
1.0.2	veneered wood in the area where you work		
	Yes,	[go to 1.	6.2.1]
	No		
	DK		
1.6.2.1	How many hours per week did other worke	rs perform this task	
	while you were working in this area?		
	< 2		
	2 - 9		
	10 - 1	9	
	20 or	more	
	DK		
1.7	In this job, did you ever handle or pump fue	21?	
	Yes	[go to 1.	7.1]
	No		
	DK		
1.7.1	How many hours per week did you do this?		
	< 2		
	2 - 9		
	10 - 1	9	
	20 or	more	
	DK		
1.8	In this job, did you ever use paint?		
	Yes	[go to 1	.8.1-1.8.5]
	No		
	DK		
1.8.1	How many hours per week did you do this?		
	< 2		
	2 - 9		
	10 - 1	9	
	20 or	more	
	DK		
1.8.2	What did you usually use to apply the paint	? (allow multiple)	
	Brush		
	Roller		
1			
	Electr	ostatic gun	

	Dip item into paint	
	Other	
	DK	
1.8.3	Did you paint indoors or inside a ship?	
1.6.5	Yes	[go to 1.8.3.1-
	163	1.8.3.2]
	No	1.0.3.2
	DK	
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, fume	es or
	vapors that was produced?	
	Yes	
	No	
	DK	
1.8.3.3	Did you paint in a production area of a manufacturing plant	:?
	Yes	[go to 1.8.3.3.1]
	No	
	DK	
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	[go to 1.8.4.1]
	No	
	DK	
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	1?
	Yes	[go to 1.8.5.1]
	No	
	DK	

1.8.5.1	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	
1.9	In this job, did you ever handle or use particle board, plywood, or	
	veneered wood?	
	Yes	[go to 1.9.1]
	No	
	DK	
1.9.1	How many hours per week did you do this?	
	< 2	
	2 - 9	
	10 - 19	
	20 or more	
	DK	
1.9.2	Did other workers work with particle board, plywood, or	
	veneered wood in the area where you worked?	
	Yes,	[go to 1.9.2.1]
	No	
	DK	
1.9.2.1	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	
1.10	In this job, did you ever handle or pump fuel?	
	Yes	[go to 1.10.1]
	No	
	DK	
1.10.1	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 use glues or adhesives?	
	Yes,	[go to 2.1-2.3]
	No	
	DK	
	I.	1

2.1	Was there a local exhaust system to remove the dust, fur	mes or
	vapors that was produced?	
	Yes	
	No	
	DK	
2.2	Did you use solvent-based glues or adhesives, for exampl	e,
	rubber cement?	[go to 2.2.1]
	Yes,	[go to 2.2.1]
	No	
2.2.4	DK	
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 acrylic resins?	, vinyl or
	Yes	[go to 2.3.1]
	No	
	DK	
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 th where you worked?	e area
	Yes	[go to 3.1]
	No	
	DK	
3.1		
	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-b product, or fuel?	ased
	Yes	
	No	
	DK	
	DIV.	

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

	Solvent (SOL) (LONG)	
1	In this job, did you ever clean or degrease metal or plastic parts with chemicals?	
	Yes	[go to 1.1-1.5]
	No	
	DK	
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	
	res No	
	DK	

1.6	Did other workers clean or degrease parts worked?	n the area where you
	Yes	[go to 1.6.1]
	No	
	DK	
1.6.1	How many hours per week did other works	ers perform this task
	while you were working in this area?	·
	< 2	
	2 - 9	
	10 - 1	9
	20 or	more
	DK	
2	In this job, did you ever use paint?	
	Yes	[go to 2.1-2.5]
	No	
	DK	
2.1	How many hours per week did you do this?	
	< 2	
	2 - 9	
	10 - 1	9
	20 or	more
	DK	
2.2	What did you usually use to apply the paint	? (allow multiple)
	Brush	
	Roller	•
	Electr	ostatic gun
	Spray	gun
	Dip it	em into paint
	Other	
	DK	
2.3	Did you paint indoors or inside a ship?	
	Yes	[go to 2.3.1-2.3.2]
	No	
	DK	
2.3.1	How many hours per week did you do this?	
	< 2	
	2 - 9	
	10 - 1	
	20 or	more
	DK	

2.3.2	Was there a local exhaust system to remove the du	ist, fumes or
	vapors that was produced?	,
	Yes	
	No	
	DK	
2.3.3	Did you paint in a production area of a manufactur	ing plant?
	Yes	[go to 2.3.3.1]
	No	
	DK	
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	[go to 2.4.1]
	No	
	DK	
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	ı worked?
	Yes	[go to 2.5.1]
	No	
	DK	
2.5.1	How many hours per week did other workers perfo	rm 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	[go to 3.1-3.3]
	No	
	DK	

3.1	How many hours nor wook did you do this?	
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	/ou
	worked?	[aa ta 2 4 1]
	Yes	[go to 3.4.1]
	No	
	DK	
3.4.1	How many hours per week did other workers perform this ta	SK
	while you were working in this area?	
	2 - 9	
	10 - 19	
	20 or more	
	DK	
4	In this job, did you ever strip paint from metal or wood object	
	Yes,	[go to 4.1-4.3]
	No	
	DK	
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	[go to 4.3.1]
	No	
	DK	
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,	[go to 5.1-5.8]
	No	
	DK	
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	

	a andia na sina 2	
	acrylic resins?	
	Yes	[go to 5.4.1]
	No	
	DK	
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 w other heated device?	ith a gun or
	Yes,	[go to 5.5.1]
	No	
	DK	
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 to both pieces being glued, let it dry for a short till join the two pieces together?	
	Yes	[go to 5.6.1]
	No	100 00 1
	DK	
5.6.1	How many hours per week did you do this?	
3.0.2	< 2	
	2 - 9	
	10 - 19	
	20 or more	
	DK	
5.7		
]	the glue together before applying? (epoxy resins)	5 5 pa. 60 c.
	Yes	[go to 5.7.1]
	No	
	DK	
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	[go to 5.8.1]
	No	[80 to 0.0.2]
	DK	
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	[ask 5.9.1]
	No	
	DK	
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	[go to 6.1]
	No	
	DK	
6.1	How many hours per week did you do this?	
	< 2	
	2 - 9	
	10 - 19	
	20 or more	
	DK	
6.2	- · ·	
0.2	veneered wood in the area where you worked?	
	Yes,	[go to 6.2.1]
	No	
	DK	
6.2.1	How many hours per week did other workers perform this task	
5.2.1	while you were working in this area?	
	< 2	
	2 - 9	
	10 - 19	
	20 or more	
	DK	
L	1	

7	In this job, did you ever handle or pump		
	Yes		[go to 7.1]
	No		
	DK		
7.1	How many hours per week did you do this?		
	< 2		
	2 - 9	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	t applicable - did not use	
		vents	
	DK		
10	Did you clean your hands with a solvent, a solvent-based product		
	_	or with fuel, such as gasoline?	
	Yes		
	No		
	DK		

	TEACHER (TE) MODULE		
1	What grade level did you teach?		
	Elementary or below		
	Junior high/middle scho		
	High school		
	Vocational or technical s		
	College or university		
	Other		
	DK		
2	What subjects did you teach? (all		
		Art	[END]
		Biology	[go to 2.1]
		Chemistry	[go to 2.2]
		Industrial shop	[go to 2.3-2.5]
		Other	[END]
		DK	[END]
2.1	Did you teach a lab component fo		
		Yes	[go to 2.1.1]
		No	
		DK	
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	[go to 2.2.1]
		No	
		DK	
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]		