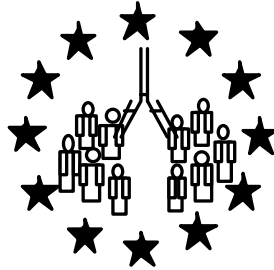


THE EUROPEAN COMMUNITY RESPIRATORY HEALTH SURVEY II



ECRHS II

OCCUPATIONAL MODULES

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www.ecrhs.org



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INSTRUCTIONS FOR OCCUPATIONAL MODULES

Background

There are seven different modules. Whether a subject should do a module or not, depends on the answer to a “filtering question”. There are seven filtering questions, which should be asked to every subject by means of a face-to-face interview. Photos are available to elucidate the difference between “welding” (module 6) and “soldering” (module 7). For some other questions, photos are used to elucidate possible answers (respiratory protective equipment, ventilation systems). These photos are included with the modules.

Modules can in principle be self-completed with supervision of the interviewer.

Filtering questions

Ask all filtering questions first, before shifting to the modules.

All filtering questions refer to an activity for more than 3 consecutive months since the last survey.

If subject answers positively to a filtering question, verify whether this was for more than 3 consecutive months since the last survey

1. Cleaning and/or washing in the home: Cleaning the house (floor, carpets, furniture, bathroom, windows); and/or washing clothes.
2. All types of cleaners; including private home cleaners (charwomen), cleaners of schools, offices, public buildings, ...
3. All types of nurses, including carers in old people’s homes, dental hygienists, midwives, anaesthesia assistants, assistants of general practitioner.
4. Disinfectants are chemical compounds used to destroy bacteria and other micro-organisms. These are used in different types of occupations, such as farmers and other agricultural workers, laboratory workers, slaughterhouse workers and butchers, cleaners, nurses and other health care workers. Controlling cockroaches with pesticides is NOT disinfection!

5. All “metal workers”.

Examples: blast-furnace workers, automotive workers (manufacturing and repair), instrument manufacturing, galvanisation

6. Photos set I; especially for French and Spanish

Welding at home: does not refer to a job in matrix; thus can be shorter than 3 months

Welding at home is usually a side activity, for instance fixing old cars.

7. Photos set I; especially for French and Spanish

Soldering at home: does not refer to a job in matrix; thus can be shorter than 3 months

Soldering at home is usually a side activity, for instance electronics as a hobby.

General instructions for the modules

- First question: Look at Q28 of main questionnaire
- If there are more jobs for the module, follow the sequence of the matrix (i.e. most recent job first and work top-down the matrix).
- First question of each module: Record one job number
- Last question of each module: Tick each of the jobs 1–10 where appropriate

- Frequency categories all regarding average number of days a week, since the last survey:

Never	as is says
<1 day/week	for instance once every two weeks, occasionally, once a month
1–3 days/week	for instance half of my working days
4–7 days/week	for instance basically every (working) day

Always make one choice of these four, never tick two.

The same holds for Module 3.5 and Module 3.7, and for Module 4.4 and Module 6.2 and Module 7.2

Module 1: CLEANING / WASHING IN THE HOME

1.1 For cleaning/washing in the home, this module should only linked to a job in the matrix when it concerns being a houseperson. If not, enter a 0.

1.3 Dusting OR sweeping OR hoovering OR rug beating

1.4 Liquid multi-use cleaning products; not for dishes or washing clothes

1.5 Ironing sprays: **not** is meant steam ironing

1.6 Any perfumed or scented cleaning product, either in powder, liquid or spray-form

Module 2: CLEANERS

2.2. If “sometimes” cleaning offices, record a negative answer

More than one answer possible:

2.3 Dusting OR sweeping OR hoovering OR rug beating

Factories, industrial cleaning

2.5 Ironing sprays: **not** is meant steam ironing

2.6 Any perfumed or scented cleaning product, either in powder, liquid or spray-form

Module 3: NURSES

3.2: More than one answer possible

3.8 Liquid multi-use cleaning products; not for dishes or washing clothes

Module 4: DISINFECTANTS

4.3 Sanitary: toilets, showers, washing rooms

4.6 If the subject does not remember the active compound, ask for the brand name and fill in as detailed as possible (e.g. “HYPOCHLORAN, YELLOW BOTTLE, LIQUID”)

4.7 Use photos set II (respiratory protective equipment)

Module 5: METAL WORKERS

5.6 Use photos set III (ventilation)

5.7 Use photos set II (respiratory protective equipment)

Module 6: WELDERS

6.1 For welding at home, enter a 0.

6.7 Use photos set III (ventilation)

6.8 Use photos set II (respiratory protective equipment)

Module 7: SOLDERS

7.1 For welding at home, enter a 0.

7.5 Use photos set III (ventilation)

7.6 Use photos set II (respiratory protective equipment)

Coding Instructions

General

NO	1
YES	2
NOT APPLICABLE	8
NOT KNOWN / NOT ANSWERED	9

Questions on frequency

NEVER	1
<1 DAY/WEEK	2
1-3 DAYS/WEEK	3
4-7 DAYS/WEEK	4

First question of each module

One job number (1-10), or a 0 for modules 1, 6 and 7

Last question of each module

NO	1
YES, different working tasks	2
YES, similar working tasks	3
10 variables (JOB1, JOB2, ..., JOB10) NO (1) YES (2)	

Module 1

1.1: Enter a 0 if module does not refer to a job in matrix

Module 2

2.2: More than one answer possible; each answer no/yes

Module 3

3.2: More than one answer possible; each answer no/yes

3.5 and 3.7:

NONE	1
1-2	2
3-5	3
6-10	4
MORE THAN 10	5

Module 4

4.4:

<1 HOUR A DAY	1
1-4 HOURS A DAY	2

>4 HOURS A DAY 3

4.6: Two fields of free text for disinfectant name

Module 6

6.1: Enter a 0 if module refers to welding at home

6.2:

<1 HOUR A DAY 1

1-4 HOURS A DAY 2

>4 HOURS A DAY 3

Module 7

7.1: Enter a 0 if module refers to soldering at home

7.2:

<1 HOUR A DAY 1

1-4 HOURS A DAY 2

>4 HOURS A DAY 3

OCCUPATIONAL MODULES (AFTER Q31 OF MAIN QUESTIONNAIRE)

Since the last survey:

- i. Have you been the person doing the cleaning and/or washing in your home?
yes → **DO MODULE 1**
no

- ii. Have you worked as a cleaner?
yes → **DO MODULE 2**
no

- iii. Have you worked as a nurse?
We are interested in all types of nurses, including assistant nurses, midwives, dental hygienists, medical technicians, and carers.
yes → **DO MODULE 3**
no

- iv. Have you used disinfectants at work?
yes → **DO MODULE 4**
no

- v. Have you worked in a job that involved production, processing or handling of metal or metallic objects?
yes → **DO MODULE 5**
no

- vi. Have you carried out welding, at work or at home? *(Use photo 1A)*
yes → **DO MODULE 6**
no

- vii. Have you carried out soldering, at work or at home? *(Use photo 1B)*
yes → **DO MODULE 7**
no

*If all above questions were answered **no**, return to the main questionnaire (Q32)*

If all modules according to above answers **yes** are completed, return to the main questionnaire (Q32)

MODULE 1: CLEANING / WASHING IN THE HOME

Centre number:				
Personal number:				

1.1 To which job number in the matrix does this module refer?

If this refers to a time period not as a houseperson, enter 0

--

1.2 On how many days a week did you perform the following tasks?

	Never	<1 day/wk	1-3 days/wk	4-7 days/wk
Cleaning the house				
Washing clothes by hand				
Washing clothes by machine				
Cooking				

1.3 On how many days a week did you perform the following cleaning tasks?

	Never	<1 day/wk	1-3 days/wk	4-7 days/wk
Dusting, sweeping, hoovering, rug beating				
Mopping, wet cleaning, damp wiping				
Cleaning the toilet bowl				
Polishing, waxing, shampooing				
Cleaning windows or mirrors				
Cleaning the kitchen (<i>not included dish washing</i>)				

1.4 On how many days a week did you use the following cleaning products?

	Never	<1 day/wk	1-3 days/wk	4-7 days/wk
Washing powders (detergents)				
Liquid multi-use cleaning products				
Polishes, waxes (<i>floor, furniture</i>)				
Bleach (<i>examples</i>)				
Ammonia (<i>examples</i>)				
Decalcifiers, acids (<i>liquid scale removers</i>)				
Solvents, stain removers (<i>examples</i>)				
Other cleaning products				

1.5 On how many days a week did you use the following sprays?

	Never	<1 day/wk	1-3 days/wk	4-7 days/wk
Furniture sprays				
Glass cleaning sprays (<i>windows, mirrors</i>)				
Sprays for carpets, rugs, or curtains				
Sprays for mopping the floor				
Oven sprays				
Ironing sprays				
Air refreshing sprays				
Other sprays				

1.6 On how many days a week did you use perfumed or scented cleaning products?

never <1 day/week 1-3 days/week 4-7 days/week

1.7 Were you the person doing the cleaning and/or washing in your home in another time period since the last survey?

	No → <i>Return to the front page of the modules.</i>			
	Yes , with <u>essentially different</u> working tasks → <i>Complete another module 1.</i>			
	Yes , with <u>similar</u> working tasks <i>Please indicate the job number(s) from the matrix:</i>			

MODULE 2: CLEANERS

Centre number:				
Personal number:				

2.1 To which job number in the matrix does this module refer?

--

2.2 What/where did you clean? Identify your principal working places.

	No	Yes
Private homes		
Schools		
Offices		
Hospitals, pharmacies		
Shops		
Cafés, restaurants		
Kitchens		
Factories (production sites)		
Outside		

2.3 On how many days a week did you perform the following cleaning tasks?

	Never	<1 day/wk	1–3 days/wk	4–7 days/wk
Dusting, sweeping, hoovering, rug beating				
Mopping, wet cleaning, damp wiping				
Cleaning the toilet bowl				
Polishing, waxing, shampooing				
Cleaning windows or mirrors				
Cleaning the kitchen				
Washing clothes by hand				
Washing clothes by machine				
Industrial cleaning (<i>regular maintenance/ cleaning of process machinery, daily spraying of sieves, cleaning sacking machine with compressed air</i>)				

2.4 On how many days a week did you use the following cleaning products?

	Never	<1 day/wk	1–3 days/wk	4–7 days/wk
Washing powders (detergents)				
Liquid multi-use cleaning products				
Polishes, waxes (<i>floor, furniture</i>)				
Bleach (<i>examples</i>)				
Ammonia (<i>examples</i>)				
Decalcifiers, acids (liquid scale removers)				
Solvents, stain removers (<i>examples</i>)				
Other cleaning products				

2.5 On how many days a week did you use the following sprays?

	Never	<1 day/wk	1–3 days/wk	4–7 days/wk
Furniture sprays				
Glass cleaning sprays (<i>windows, mirrors</i>)				
Sprays for carpets, rugs, or curtains				
Sprays for mopping the floor				
Oven sprays				
Ironing sprays				
Air refreshing sprays				
Other sprays				

2.6 On how many days a week did you use perfumed or scented cleaning products?

never <1 day/week 1–3 days/week 4–7 days/week

2.7 On how many days a week did you wear a mask or other respiratory protection during cleaning work?

never <1 day/week 1–3 days/week 4–7 days/week

2.8 Were you a cleaner in another time period since the last survey?

No → <i>Return to the front page of the modules.</i>			
Yes , with <u>essentially different</u> working tasks → <i>Complete another module 2.</i>			
Yes , with <u>similar</u> working tasks <i>Please indicate the job number(s) from the matrix:</i>			

MODULE 3: NURSES

<i>Centre number:</i>			
<i>Personal number:</i>			

3.1 To which job number in the matrix does this module refer?

--

3.2 What was your job? Identify your principal work.

	No	Yes
Nurse in general practitioner's surgery		
Clinical nurse in a hospital		
Nursing assistant in a hospital		
Anaesthesia assistant		
Technician in a hospital		
Carer in private homes of patients		
Carer in a service flat or old people's home		
Midwife		
Maternity nurse		
Dental hygienist or assistant		
Other		

3.3 On how many days a week did you perform the following working tasks?

	Never	<1 day/wk	1-3 days/wk	4-7 days/wk
Assistance of general practitioner				
Work in medical outpatient clinic				
Work in paramedics				
Work in emergency room				
Work in critical care unit				

Work in operating theatres				
Work in endoscopy				
Work in oncology				
Work in radiology / nuclear medicine				
Preparation of medicines				
Administration of medicines				
Work in laboratory				
Disinfection				

3.4 On how many days a week did you use powdered latex (natural rubber) gloves?

never <1 day/week 1–3 days/week 4–7 days/week

3.5 How many pairs of powdered latex gloves did you use per day?

none 1–2 3–5 6–10 more than 10

3.6 On how many days a week did you use non-powdered latex gloves?

never <1 day/week 1–3 days/week 4–7 days/week

3.7 How many pairs of non-powdered latex gloves did you use per day?

none 1–2 3–5 6–10 more than 10

3.8 On how many days a week did you use the following cleaning products at work?

	Never	<1 day/wk	1–3 days/wk	4–7 days/wk
Washing powders (detergents)				
Liquid multi-use cleaning products				
Bleach <i>(examples)</i>				
Ammonia <i>(examples)</i>				
Solvents, stain removers <i>(examples)</i>				
Any cleaning products in spray-form				
Other cleaning products				

3.9 Did you work as a nurse in another time period since the last survey?

	No → <i>Return to the front page of the modules.</i>			
	Yes, with <u>essentially different</u> working tasks → <i>Complete another module 3.</i>			
	Yes, with <u>similar</u> working tasks <i>Please indicate the job number(s) from the matrix:</i>			

MODULE 4: DISINFECTANTS

<i>Centre number:</i>				
<i>Personal number:</i>				

4.1 *To which job number in the matrix does this module refer?*

--

4.2 On how many days a week did you perform the following working tasks with disinfectants?

	Never	<1 day/wk	1–3 days/wk	4–7 days/wk
<u>Preparation / mixing of disinfectant</u>				
<u>Filling of devices before use</u>				
<u>Actual disinfection</u>				
<u>Cleaning equipment after use</u>				

4.3 On how many days a week did you disinfect the following:

	Never	<1 day/wk	1–3 days/wk	4–7 days/wk
<u>Sanitary (toilets, bathrooms)</u>				
<u>Kitchens</u>				
<u>Medical instruments</u>				
<u>Laboratory equipment</u>				
<u>Industrial machinery</u>				

Cooling towers				
Animal houses / stables				
Greenhouses				
Agricultural soil				
Slaughterhouses				
Butcher's shops				
Other food shops				
Stores				
Other places				

4.4 On days with disinfectant use, how many hours did you on average use disinfectants?

<1 hour a day 1–4 hours a day >4 hours a day

4.5 On how many days a week did you use the following methods of disinfection:

	Never	<1 day/wk	1–3 days/wk	4–7 days/wk
Spraying				
Rinsing manually				
Washing by machine				
Clean surfaces with a sponge or a cloth				
Mopping or scouring the floor				
Other method				

4.6 On how many days a week did you use the following disinfectants?

	Never	<1 day/wk	1–3 days/wk	4–7 days/wk
Formaldehyde				
Glutaraldehyde				
Bleach, chlorine <i>(examples)</i>				
Chloroamine-T				
Alcohol <i>(ethanol, methanol)</i>				
Ammonia				
Quaternary ammonium compounds				
Ethylene oxide				
Halamid				
<i>If you don't know the active compound, fill in the brand name below:</i>				

Other product; don't know the name				

4.7 Which of the following respiratory protection devices did you use during working with disinfectants?

	No	Yes
Face piece (PHOTO 2A)		
Face mask with filter (PHOTO 2B)		
Face shield with fresh air supply (PHOTO 2C)		
Other		

4.8 Did you use disinfectants in another time period since the last survey?

No → Return to the front page of the modules.			
Yes, with <u>essentially different</u> working tasks → Complete another module 4.			
Yes, with <u>similar</u> working tasks Please indicate the job number(s) from the matrix:			

MODULE 5: METAL WORKERS

Centre number:			
Personal number:			

5.1 To which job number in the matrix does this module refer?

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5.2 On how many days a week did you perform the following working tasks?

	Never	<1 day/wk	1-3 days/wk	4-7 days/wk
Metal smelting				
Rolling-mill worker				
Metal melting and reheating				
Metal casting				
Metal moulding and coremaking				
Metal annealing, tempering and hardening				
Metal drawing and extruding				
Metal plating/galvanising				
Metal coating/spray painting				
Metal finishing and cleaning				
Blacksmith, forging press operating				

Tool making				
Machine tool setter-operating				
Metal-tool operating				
Metal grinding, polishing				
Machinery fitting and assembling				
Precision-instrument making				
Motor-vehicle mechanic				

5.3 On how many days a week did you perform the following types of tasks?

	Never	<1 day/wk	1-3 days/wk	4-7 days/wk
Handwork				
Operating machinery close to process				
Operating fully automated process machinery				

5.4 On how many days a week did you work with the following metals?

	Never	<1 day/wk	1-3 days/wk	4-7 days/wk
Ferrous (<i>iron, steel</i>)				
Aluminium				
Other non-ferrous (<i>copper</i>)				
Hard metal (<i>tungsten, cobalt, beryllium</i>)				
Other				

5.5 On how many days a week occurred the following exposures during your working tasks?

	Never	<1 day/wk	1-3 days/wk	4-7 days/wk
Metal dusts and fumes				
Moulding dusts and fumes				
Acid fumes (<i>plating</i>)				
Water-based metal working fluids				
Oil-based metal working fluids				
Welding fumes				
Soldering fumes				
Organic solvents (<i>degreasing</i>)				
Other degreasing agents (water-based)				
Paints				
Oil and greases				

5.6 Which of the following types of ventilation was in use at your workplace?

	No	Yes
General mechanical ventilation		

Local exhaust ventilation: fixed extraction		
Local exhaust ventilation: mobile extraction (PHOTO 3B)		
Local exhaust ventilation: on-tool tin extraction (PHOTO 3C)		

5.7 Which of the following respiratory protection devices did you use during working with metal?

	No	Yes
Face piece (PHOTO 2A)		
Face mask with filter (PHOTO 2B)		
Face shield with fresh air supply (Airstream) (PHOTO 2C)		
Other		

5.8 Were you a metal worker in another time period since the last survey?

No → Return to the front page of the modules.			
Yes, with <u>essentially different</u> working tasks → Complete another module 5.			
Yes, with <u>similar</u> working tasks Please indicate the job number(s) from the matrix:			

MODULE 6: WELDERS

Centre number:			
Personal number:			

6.1 To which job number in the matrix does this module refer?

If this refers to welding at home enter 0

6.2 If welding, on how many hours per day did you on average carry out welding?

<1 hour a day 1–4 hours a day >4 hours a day

6.3 On how many days a week did you use the following welding methods?

	Never	<1 day/wk	1–3 days/wk	4–7 days/wk
MMA (manual metal arc welding)				

MAG/MIG (metal active/inert gas welding)				
TIG (tungsten inert gas welding)				
SAW (submerged arc welding)				
FCW (flux cored arc welding)				
Other				

6.4 On how many days a week did you perform welding:

	Never	<1 day/wk	1–3 days/wk	4–7 days/wk
By hand				
Operating a fully automated welding machine				

6.5 On how many days a week did you weld in the following materials?

	Never	<1 day/wk	1–3 days/wk	4–7 days/wk
Stainless steel				
Mild steel (<i>ferrous alloy for ship construction</i>)				
Galvanised iron or steel				
Aluminium				
Painted metal				
Other				

6.6 On how many days a week did you weld in the following places?

	Never	<1 day/wk	1–3 days/wk	4–7 days/wk
Confined spaces (<i>ship's (cargo) hold, inside of tank or truck</i>)				
Workshops				
Shipyards, but not confined spaces				
Outdoors				

6.7 Which of the following types of ventilation was in use at your workplace?

	No	Yes
General mechanical ventilation		
Local exhaust ventilation: fixed extraction		
Local exhaust ventilation: mobile extraction (<i>PHOTO 3B</i>)		

Local exhaust ventilation: on-tool tin extraction (PHOTO 3C)		
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6.8 Which of the following respiratory protection devices did you use during welding?

	No	Yes
Face piece (PHOTO 2A)		
Face mask with filter (PHOTO 2B)		
Face shield with fresh air supply (Airstream) (PHOTO 2C)		
Other		

6.9 Did you carry out welding in another time period since the last survey?

	No → Return to the front page of the modules.			
	Yes , with <u>essentially different</u> working tasks → Complete another module 6.			
	Yes , with <u>similar</u> working tasks Please indicate the job number(s) from the matrix:			

MODULE 7: SOLDERERS

Centre number:				
Personal number:				

7.1 To which job number in the matrix does this module refer?

If this refers to soldering at home enter 0

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7.2 If soldering, on how many hours per day did you on average carry out soldering?

<1 hour a day 1–4 hours a day >4 hours a day

7.3 On how many days a week did you use the following soldering methods?

	Never	<1 day/wk	1–3 days/wk	4–7 days/wk
Brazing (<i>hard or silver soldering</i>)				
Soft soldering (<i>electric resistance</i>)				
Other				

7.4 On how many days a week did you perform soldering:

	Never	<1 day/wk	1–3 days/wk	4–7 days/wk
By hand				
Operating a fully automated soldering machine				

7.5 Which of the following types of ventilation was in use at your workplace?

	No	Yes
General mechanical ventilation		
Local exhaust ventilation: fixed extraction		
Local exhaust ventilation: mobile extraction (<i>PHOTO 3B</i>)		
Local exhaust ventilation: on-tool tip extraction (<i>PHOTO 3C</i>)		

7.6 Which of the following respiratory protection devices did you use during soldering?

	No	Yes
Face piece (<i>PHOTO 2A</i>)		
Face mask with filter (<i>PHOTO 2B</i>)		
Face shield with fresh air supply (<i>Airstream</i>) (<i>PHOTO 2C</i>)		
Other		

7.7 Did you carry out soldering in another time period since the last survey?

	No → <i>Return to the front page of the modules.</i>		
	Yes , with <u>essentially different</u> working tasks → <i>Complete another module 7.</i>		
	Yes , with <u>similar</u> working tasks <i>Please indicate the job number(s) from the matrix:</i>		