Interview demonstration

Test study

- With OccIDEAS you can choose any combination of exposures and any jobs (including all jobs)

- In order to make this demonstration very short, this test interview is for a study of only one exposure (diesel exhaust) in only one job (mining)

First enter identifying information

OccIDEAS

OccIDEAS Version 3.9.0

Welcome interviewer

PARTICIPANTS   NEW INTERVIEW MDHS-T11

What is the participant ID?

INTR 1

Switch to List View

No questions to be displayed

Free Text

⦿ MHDS-T11

NEXT

ADD NOTE

You can customize demographic questions to suit your study

- You can customize the introductory module to ask demographic and other characteristics
  - E.g. age,
  - residential postcode,
  - education etc.

Choose the job

- Questions about
  - Industry
  - Job title
  - Main tasks

OccIDEAS Version 3.9.0

The final part of the interview is about your current job. If you have more than one job, then please answer the questions about the job where you spend the most time working– for this interview I will refer to this as your main job. In your main job, what is the industry of your employer?

MIGR 42

Free Text

○ [Freetext]

Which of the following best describes your job category? [interviewer can choose]

MIGR 45B1

- ○ In professional, scientific services, healthcare, education or administration
- ○ In the construction industry
- ○ In a trade
- ○ In transport or warehousing
- ○ In farming, forestry, gardening, pest control or agricultural teaching
- ○ In food, hospitality or entertainment industries
- ○ In customer service that includes accommodation, food preperation or retail
- ○ In emergency services, defence or involved in public order and safety
- ○ In utilities (water, sewage, rubbish collection)
- ○ In manufacturing or production
- ◉ In heavy industry or mining
- ○ In cleaning, recycling, repairs and/or maintenance
- ○ None of the above (only choose this if they really don't fit into any above as this one will give all the JSMs as well as give you the choice of generic)

OccIDEAS

You chose heavy industry or mining. Which of the following best describes your job role?

MIGR 45B1K1

- ◉ Miner / quarrymen
- ○ Oil / petroleum industry worker
- ○ Primary metal manufacturer
- ○ Foundry worker
- ○ Office worker
- ○ Driver (transportation not mining equipment)
- ○ Fitter and maintenance mechanic

These choices lead to job-specific questions

Where do you usually work?

INTR 1

- ☐ In offices above ground
- ☐ In workshops above ground
- ☐ In mine yard
- ☐ In open pit or quarry
- ☑ At the mine face
- ☑ In the passageways used to transport the ore to the surface
- ☐ At the shaft

Free Text
- ☐ other underground areas [Freetext]

What type of mine is it?

MINE 3

- ☑ Below/underground
- ☐ Surface (open pit)

Free Text
- ☐ other [Freetext]

- ☐ Dont Know

There are also sets of questions on relevant tasks (e.g. driving)

Do you regularly drive, maintain or ride in vehicles as part of your work?

ADVM **1**

- ○ Yes
- ○ No
- ○ Don't Know

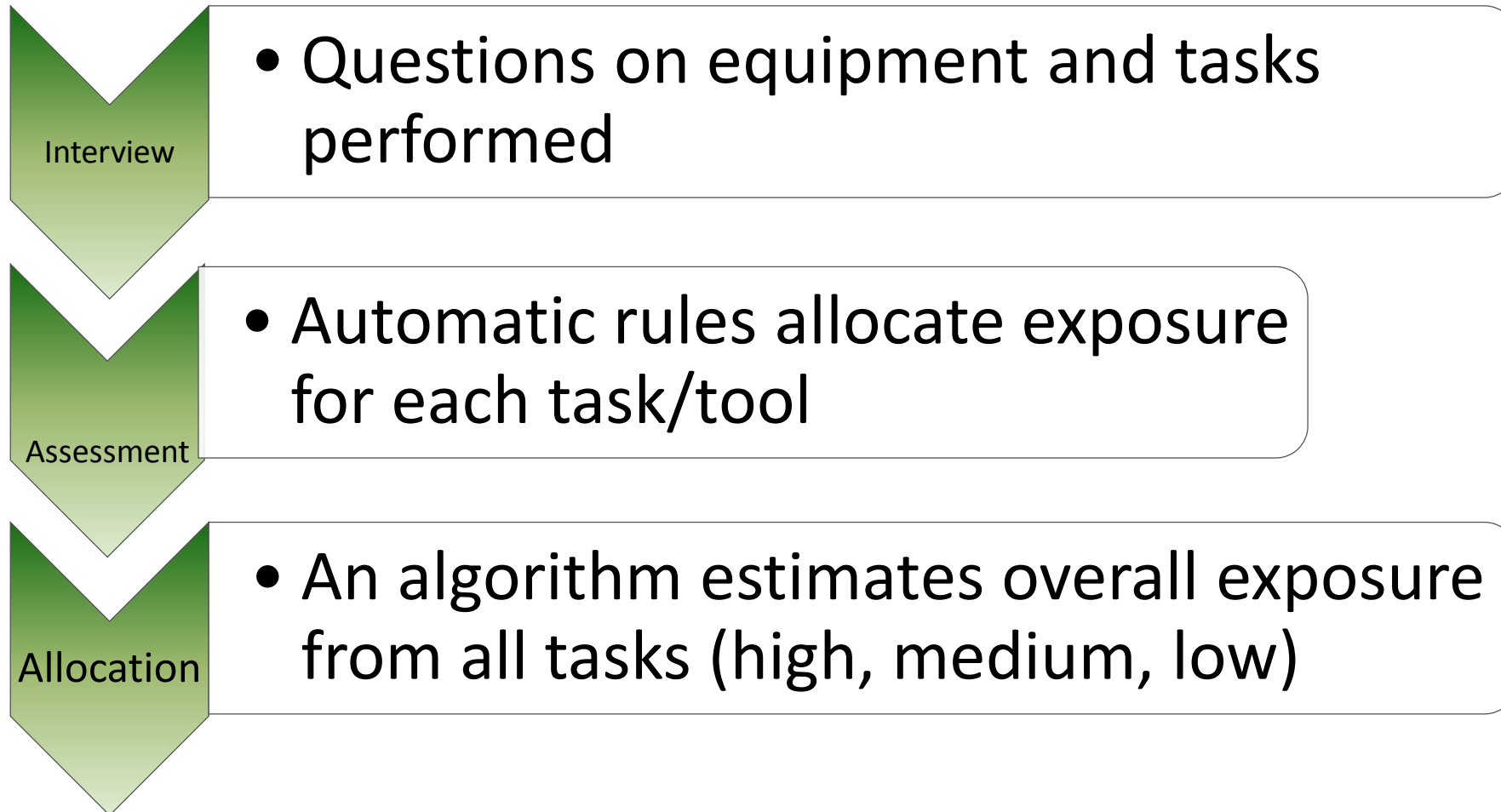What type of fuel do the vehicles use?

ADVM **1A1**

- ☑ Diesel
- ☐ Petrol
- ☐ Liquid Petroluem Gas (LPG)
- ☐ Battery or electricity
- ☐ Propane
- ☐ Other
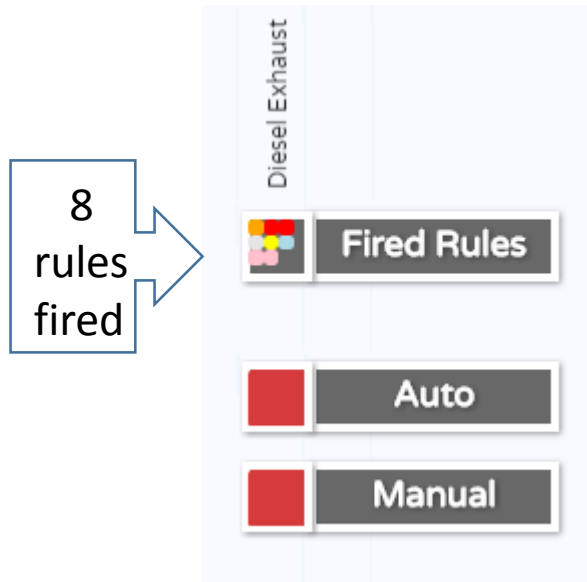
What kind of vehicle do you usually drive or ride in?

ADVM **1A3A1**

- ☑ Truck/semitrailer
- ☐ Bus/coach
- ☐ Taxi/limousine/car/van/utility
- ☑ dingo/bobcat
- ☐ Bulldozer/front end loader/tractor
- ☐ Motorcycle
- ☐ Forklift
- ☐ Other

Exposure is assessed automatically

Interview
- Questions on equipment and tasks performed

Assessment
- Automatic rules allocate exposure for each task/tool

Allocation
- An algorithm estimates overall exposure from all tasks (high, medium, low)

Fritschi L, et a l. 2009.

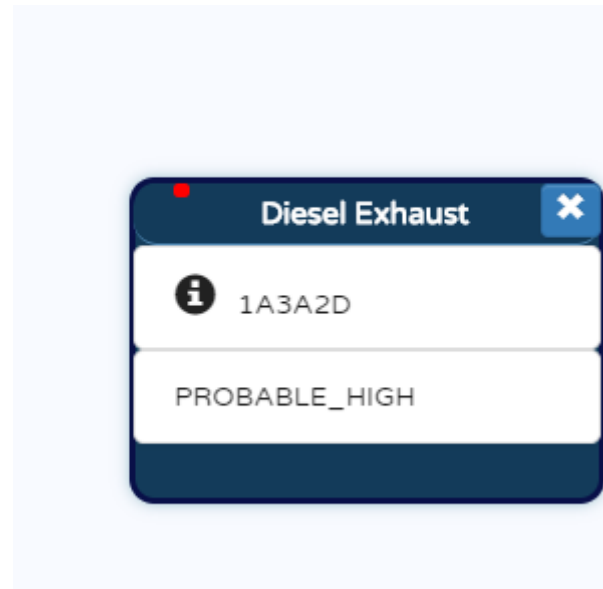# Exposure is determined by rules programmed into OccIDEAS

8 rules fired
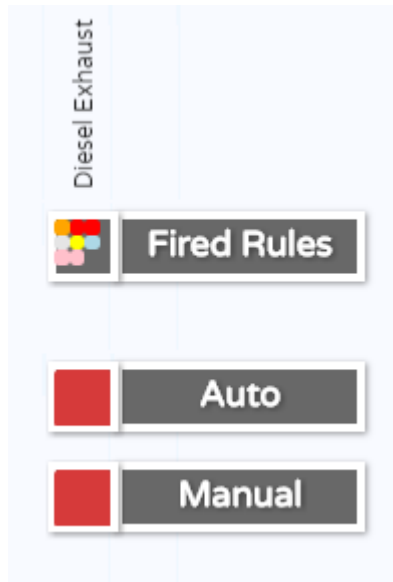
In this example, 8 rules have been fired

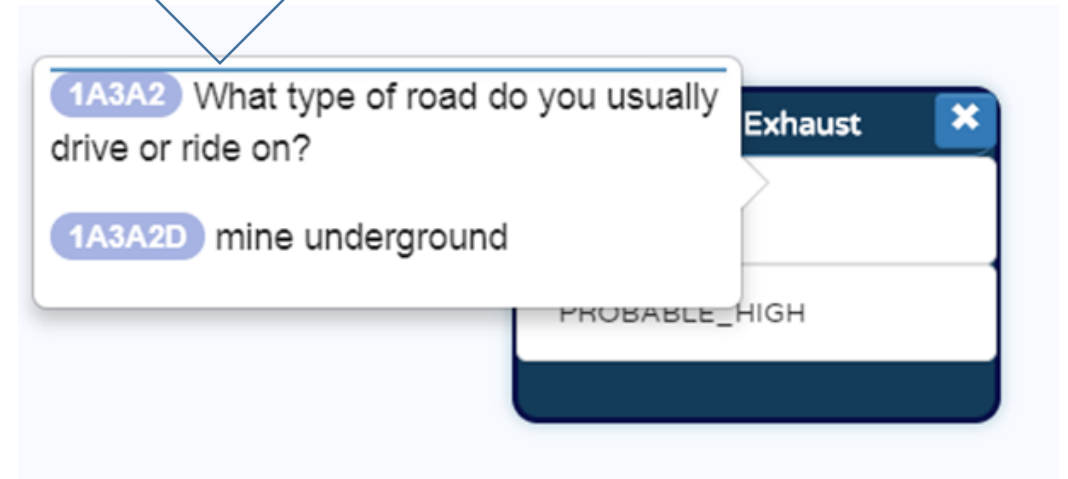# You can check which rules have been fired for that individual

High exposure rule (red)

Diesel Exhaust

Fired Rules

Auto

Manual

Diesel Exhaust

1A3A2D

PROBABLE_HIGH

And what answer the person gave that resulted in the exposure given

Multiple chemical exposures are combined into one (the highest)

8 rules fired

Diesel Exhaust

Fired Rules

Auto

Highest exposure is chosen (red = high)

Manual

You can manually override the auto exposure

OccIDEAS can assess multiple chemicals
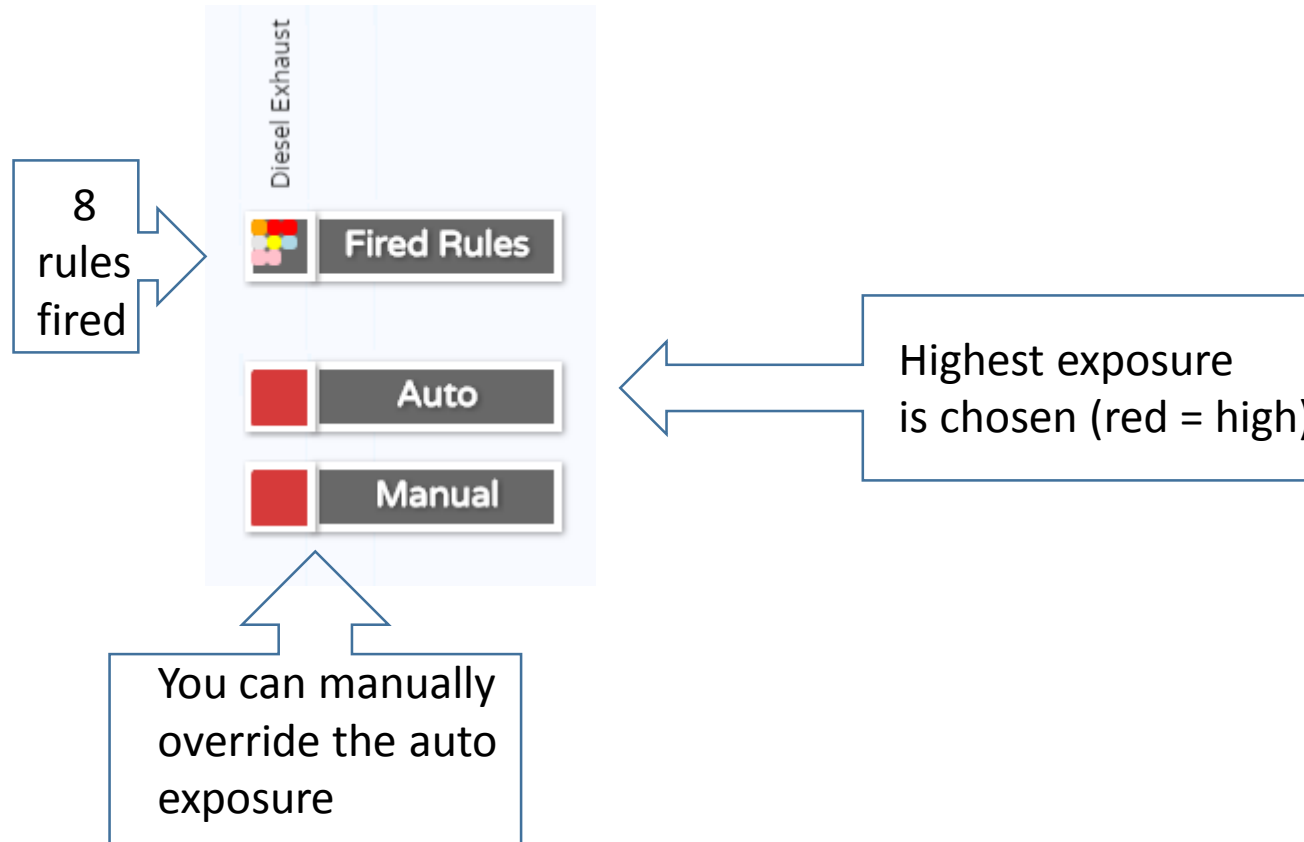
OccIDEAS can assess noise in the last working shift

Shift Hours: 8.5

Module Name	Node Number	Answer	dB	Hours	Partial Exposure
aNB2	1B	No	65B	7.1667	0.00906523812285149
aNDR	1B1A	A regular hand held drill	85	0.3333	0.0422
aNPW	1D	Another type of power wrench	103	1.0000	7.9810

Total Partial Exposure: 8.03226523812285
Auto Exposure Level: 94.00
Peak Noise: 103

Each tool is linked to a decibel level and a time spent using that tool, which is used to calculate the worker's partial exposure and L_{aEq8hr}

It can handle very complex jobs

Shift Hours: 10

Module Name	Node Number	Answer	dB	Hours	Partial Exposure
aNB2	1B	No	65B	0.8333	0.0010540503896873242
aNLT	1A1B	Most of the shift	78B	0.8333	0.021031070206213795
aNPC	1B1A	You can hold a conversation with someone a meter away	78	2.0000	0.0505
aNWW	1C1A	Hand held	85	0.1667	0.0211
aNWL	1D	None of the above-welding	93	0.0000	0.0000
aNSW	1D1B	A gas or pneumatic chain saw	105	1.0000	12.6491
aNDR	1B1C	A masonry drill or diamond drill (large)	105	1.0000	12.6491
aNPS	1A1A1A	Metal	100	3.0000	12.0000
aNPS	1D1A	A hand held planer	96	1.0000	1.5924
aNHT	1B1A	Yes	88	1.0000	0.2524

Total Partial Exposure: 39.23563107020621
Auto Exposure Level: 100.89
Peak Noise: 105

OccIDEAS can be customized

- User friendly interface

- Different introductory questions

- Choice of agents including carcinogens, asthmagens, ototoxic agents, noise and vibration

- Easy to understand visualization of the exposure assessment

- Links to advice and equipment for control of exposure

Why use OccIDEAS?

- Rules are based on best evidence and are constantly updated

- It is very customizable to your own requirements

- Easy to use

- No OHS expertise needed

- Results can be linked to your product or the safety message you want to promote

- Uses actual work experience to emphasize OHS messages

For more information

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- Or see our webpage www.occideas.org.