

CBRNE-specialists in Belgian Fire Services

ir. Frederik Vercruysse Antwerp Fire Service























Ontploffing bij #indaver in de haven. Onze ploegen zijn vertrokken. Update volgt zo snel mogelijk.



1.3 50 **№** 16 •••



Tom @mostreytom 26 feb.

@AertgeertsGino staat er jets in brand in Stabroek? Zie hier in Berendrecht vette rook uit die richting









Gino Aertgeerts @AertgeertsGino · 26 feb.

@mostrevtom IK heb het ook net gezien! zal het eens vragen aan @BWAntwerpen of het ergens in Stabroek aan het branden is?!









Brandweer Antwerpen @BWAntwerpen



Volg je nu

@AertgeertsGino @mostreytom Bij firma #indaver is er inderdaad een grote brand. We zijn er volop mee bezig.

VIND4K-LEUKS







07:17 - 26 feb. 2016









'Can I use my gear again?'

'Do these chemicals cause cancer?'

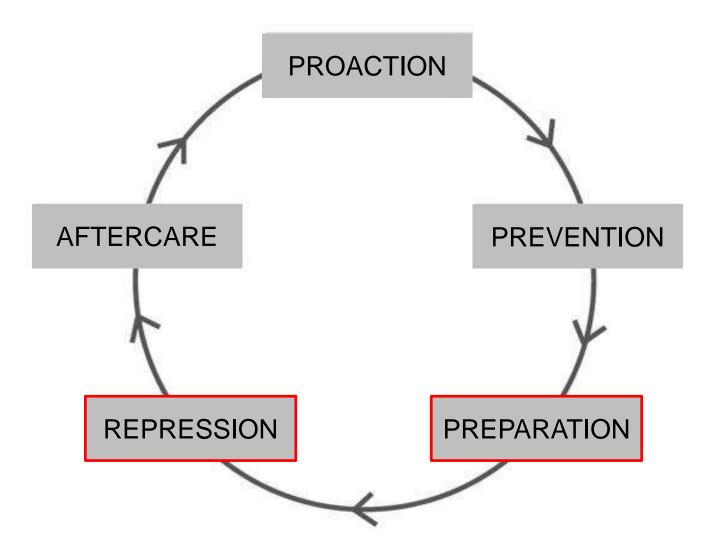
'Was I protected enough by the PPE?'

'Do I have to get my blood analysed?'



'What will be the effect on my health?'







Fire Zone Antwerp = 700 x



Who to train in CBRNE?



Belgium = 18000 x



Who to train in CBRNE?

Organisation of a fire service





firefighters



teamleaders



officers

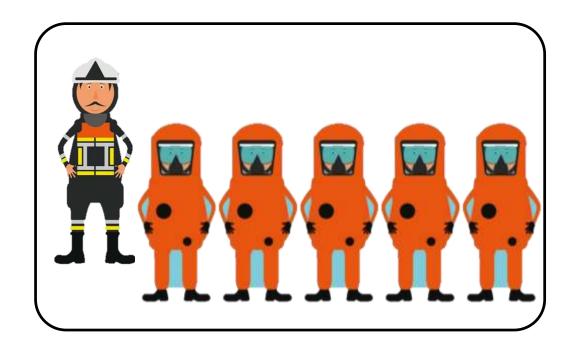
Formation

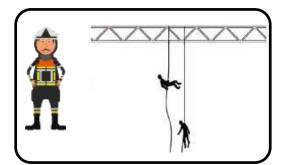


- General formation
 - Firefighters: recognition/risks of CBRNE
 - Teamleader: tactical decisions in the first 15 minutes of a CBRNE-incident
 - Officer: incident management
- Specialised formation
 - Doing the CBRNE-job → specialised firefighter
 - Strategy in CBRNE-incidents → specialised officer

Specialised firefighters











and other specialisations

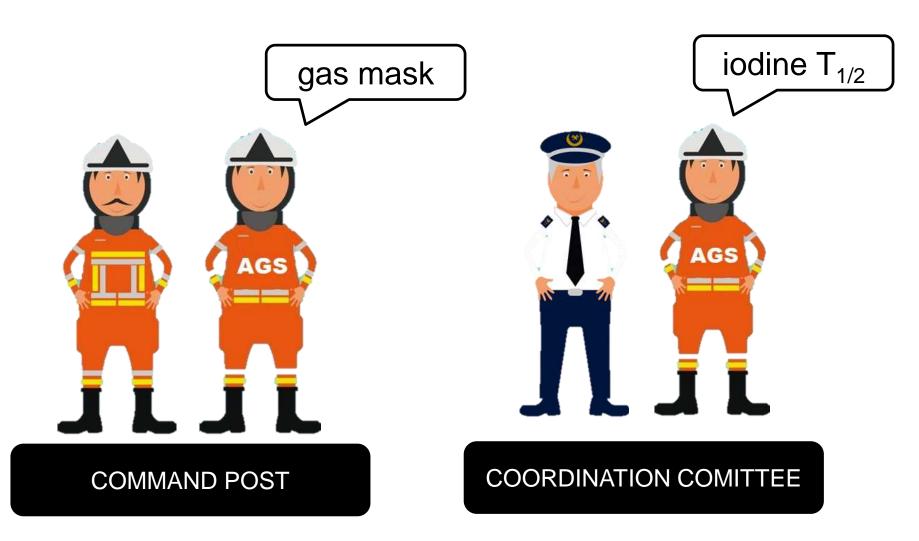
Specialised firefighters



- Dangerous goods (76u)
 PPE, decontamination, leak handling, ...
- CBRN-measurements (20h) EX/OX, PID, tubes, doserate, contamination, ...
- Use of gastight suits (40h) Dressing/undressing, safety, ...
- Industrial firefighting (70u)

 Cooling, foam, silo/tank/metal/warehouse fire, ...







Inspired by organisation in the Netherlands

- Hazmat specialist
 - AGS: 'adviseur gevaarlijke stoffen'
 - CSD: 'conseiller substances dangereuses'
- Specialists...
 - No too much (they have to be specialist!)
 - No too few (arrival on site < 1 h)











- Chemical, explosive and radioactive agents (59h)
- Toxic and biological agents (30h)
- Incident evaluation and repression (79 h)
- Typical incidents (71 h)
- Advice at CBRNe-incidents (28 h)









Preferred partner CBRN: Civil Protection

Partner in CBRN: BELINTRA (BASF/Solvay)

- Partners in CBRN
 - FANC
 - SCK/IRE
 - Crisiscentre FOD IBZ (celmes, celeval, ...)





Non site-specific information



- Plan on radiological emergencies
 - Principles
 - Uniform/generic
 - ANIP: algemeen nood- en interventieplan
 - PGUI: plan général d'urgence et d'intervention
 - But: [policy] > [operational guidance]
- Network with experienced partners
 - Task forces PPE/dose limits
 - Task force decontamination

Site-specific information



- Plan on radiological emergencies
 - Specific
 - BNIP: Bijzonder nood- en interventieplan
 - PPUI: Plan particulier d'urgence et d'intervention
 - Example: nuclear plant Doel = 167 p
 - Usefull in long(er) incident: 130 p of annexes (maps, communication lines, critical infrastucture surroundings...)
 - First responders need a compact intervention plan
- Local contact
 - Technical manager/shift supervisor
 - Guard/CEO



Fire Service CBRNE-specialists

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