



Curriculum Vitae

Personal information

First name / Surname **Salvatore CORRAO**

Address Roma, Italy

Mobile 1 +393346483864

Mobile 2 +393203498573

Linkedin profile

<https://www.linkedin.com/in/salvatore-corrao-4806578/>

E-mail 1 salvatore.corrao@vigilfuoco.it

E-mail 2 saco23477@gmail.com

Nationality Italian

Date of birth 23rd April 1977

Gender Male

Occupational field Emergency, Rescue, CBRN, HAZMAT, EU Civil Protection Mechanism, UN, NATO-EADRCC.

Work experiences

Dates February 2016 – present

Occupation or position held **Fire Officer – Roma Fire Station – Head of CBRN – HAZMAT area**

February 2007 – February 2016

Occupation or position held **Fire Officer – Chemical and Biological Risk Division, Central Directorate for Emergency and Technical Rescue, National Fire Corps – Italian Ministry of the Interior, Rome – Italy.**

Trainer in **CBRN** and **HAZMAT** courses; specialised in training and doctrine, emergency planning, operational support, cooperation with national and international bodies like **NATO**, **European Commission** (DG ECHO), **OPCW** (Organisation for Prohibition of Chemical Weapons) and **UN** (United Nations).

Taken part to different emergencies and events, like:

- **Earthquake at L'Aquila**, Italy (2009);
- Derailment of cargos transporting **LPG** occurred in **Viareggio**, Italy (2009);
- **G8 summit at L'Aquila** (2009);
- Preparations and Italian Contribution regarding an **OPCW** exercise - **ASSISTEX3** (The Hague, The Netherlands and Tunis, Tunisia (2010)
- **Earthquake at Pianura Padana Emiliana**, Italy (2012);
- **Flood emergency**, Nuoro, Sardinia Region, Italy (2013);
- **Costa Concordia operation – 3rd phase, Genoa** (2014);
- **Earthquake at Italia Centrale Amatrice – Ascoli Piceno** (2016).

International exercises as IT/EUCP team member and courses as trainer attended:

- **VAR 2008 – EU Terror Attack** - French Ministry of the Interior, Var Prefecture, France (2008);
- **SEESIM 2010** - South European Defence Ministerial table top exercise (2010, 2012);
- **TEREX** - Tuscany Earthquake Relief Exercise (2010);
- **Taranto Civil Defence TTX** - Table Top Exercise (2010);
- **EU Civil Protection Module TTX 5** - Croatia-Slovenia (2011);
- **Italian Civil Defence Exercises**: "Cemtucellae", "CMX" and "Classis" (2011);
- **NATO-EADRCC "CODRII 2011"** Exercise Chisinau, Moldova (2011) ;
- **EU Carpathex 2011**, Rzeszow, Poland (2011);
- **UNDAC Europe Refresher 2011**, Rome (2011);
- **UNDAC "Environmental Emergencies Training"** Giglio Island, Tuscany Region (2012);
- **CMI – Community Mechanism Induction** courses Italy and Croatia, from 2011 to 2017;
- **EU COMMAND POST 2012** Exercise, Carcassonne, France (2012);
- **Modex Falck** European Exercise, Aix En Provence, France (2013);
- **"TWIST"** EU Exercise, Salerno, Italy (2013);
- **"Curiex"** EU Exercise, Almaraz, Spain (2013);
- **"Prometheus 2014"** EU exercise, Athens, Greece, (2014);
- UN course **Beyond the response: better preparedness for environmental emergencies**, Maputo, Mozambique as EU civil protection trainer (2014).
- **Project CoE 34 (CBRN Centre of Excellences)** funded by EU Commission – CBRN trainer in CBRN courses held in Amman, Jordan and Beirut, Lebanon (2015);
- **"EUR – European Unified Response 2016"**, Urban Search and Rescue European Exercise, London (2016), Liaison Officer of Italian USAR EU Module;
- **Modex Falck** European Exercise, as safety officer in Poggioreale, Italy (2016);
- **Flood Emergency** European Exercise, as external evaluator, Austria (may 2017);
- **NATO-EADRCC "Bosnia and Herzegovina 2017"** Exercise Tuzla, BiH (2017);
- **MODEX exercise**, Montana, Bulgaria (march 2018);
- **Flood Emergency – FRAMODEX** European Exercise, as external evaluator, Arles, France (April 2018);
- **"CORONAT Mask 2018"** exercise, Civitavecchia, Roma (September, 2018)
- **H-USAR Italy INSARAG Classification** preparation and exercise, Pisa, Italy (July -Nov 2018).

Since 2010, been working on:

- **Nifti European project-Natural Human-Robot Cooperation in Dynamic Environments** (EU FP7 agreement no. 247870 – <http://www.nifti.eu/>) (2010-2013) to design robots to be deployed in CBRN and USAR events..
- **"CBRN Integrated Response"** - Programme: "Prevention of and Fight Against Crime" (ISEC) <http://www.cbrn-response.eu> (2013-2014);
- **TRADR - Long-Term Human-Robot Teaming for Robot-Assisted Disaster Response** (EU FP7 Programme, ICT: Cognitive systems, interaction, robotics (Project Nr. 60963) <http://www.tradr-project.eu/>) (2014-2018);
- **NEXES – NEXT generation Emergency Services** (H2020 – Research and Innovation Action – Project nr. 653337 <http://nexes.eu>) (2015-2018).

Within the above mentioned projects, several meetings, exercises and reviewed and deliverables produced. Collaboration with other EU projects from 2013 on, like **Heli4Rescue**, **CATO**, **Reward** and **SecInCore**.

Name and address of employer	Italian Ministry of the Interior - Fire-fighters, Public Rescue, and Civil Defence Department, Roma Fire Station, Via Genova, 3/A, 00184, Rome, Italy
Type of business or sector	CBRN (Chemical Biological Radiological and Nuclear) and Haz-Mat (Hazard Materials)
Dates	July 2003 - April 2006
Occupation or position held	Officer in the Italian Army-Engineering Corps, assigned to the Italian Joint NBC Defence School in Rieti - Italy.
Main activities and responsibilities	<p>Lieutenant - Staff member - Studies office (January – April 2006)</p> <p>2nd Lieutenant – Staff member - Studies office (July 2003 – December 2005)</p> <p>Trainer on CBRN matters (individual protective equipment; CBRN detection systems, effects on human body following hazardous chemical attacks, etc...);</p> <p>Tutor and organizer of European SIBCRA (Sampling and Identification of Biological, Chemical and Radiological Agents) activities and courses;</p> <p>Observer at EU/NATO Working Groups.</p>
Name and address of employer	Italian Ministry of Defence – Italian Defence General Staff Italian Joint NBC Defence School, Viale dei Flavi, 7, 02100 Rieti, Italy
Type of business or sector	CBRN Defence Experimental Division – Studies office CBRN Defence NATO/EU Documentation Division – Studies office
Education and training	<p>Structural Damages course on damage assessment in buildings, ISA – Istituto Superiore Antincendi, Roma and L'Aquila Fire Station (2013).</p> <p>Master of Science in “Protection from CBRN events” - “Tor Vergata” University of Rome http://www.mastercbrn.com/ (2010/2011) - passed with full marks.</p> <p>TEC (Technical Expert Course), MSB College, Revinge, Sweden (2010).</p> <p>Incident Commander Course, Italian Engineering Military School, Rome (2011).</p> <p>OPM (Operational Management Course), within the Civil Protection Mechanism at the THW HQ, Germany (2013)</p> <p>CND (Course on Negotiation and Decision Making), within the Civil Protection Mechanism, St. Gilgen, Austria (2018).</p>

Lectures attendance about:

Nuclear/Radiological emergencies; Fire investigation; European Directive and Italian Legislation about fire resistance and euro codes connected, etc...

Delivered lectures at:

- **VIII International Forum on Industrial Safety**, St. Petersburg, Russia (2010);
- **Civil Protection Committee Seminar**, Sielnica, Slovakia (2010);
- **NATO-Ukraine workshop on CBRN Protection of High Visibility Events**, Warsaw, Poland (2011);
- **3rd National 1-1-2 day of Denmark Danish Parliament**, Copenhagen (2011);
- **International Fire-fighters Symposium** in Zagreb, Croatia (2011);
- **Future Crime Trends** – Presidency Conference - Cooperation of MS Intervention Units in **CBRN Threat Cases**, Wroclaw, Poland (2011);
- **EU CARPATHEX 2011 Lessons Learned Meeting**, Poland (2011);
- **HELI4Rescue** Collaboration Club Meeting, Rome (2012) and Donauwörth, Germany (2013);
- the **EU Robotics Forum** – Mart, Rovereto, Italy (2014);
- the **International Conference on Intelligent Autonomous Systems (IAS)**, Padova, Italy (2014);
- **Master Course in "Protection against CBRNE events"** <http://www.mastercbrn.com/> – Tor Vergata University, Rome (from 2013 – present time);
- **1st Scientific International Conference on CBRNe** (SICC 2017 - <https://www.sicc2017.com/>), Roma (2017);
- **CEPC NATO HQ** – Bruxelles, Belgium (2018);
- **Master Course in Mass Casualty Incident: the Medical Disaster Management** – L'Aquila University (2018).

Several papers submitted and accepted at the **VGR Conference** editions held at **Pisa University** (2012) and at **ISA – Istituto Superiore Antincendi**, Roma (2016), (<http://conference.ing.unipi.it/vgr2012/>; <http://conference.ing.unipi.it/vgr2016/>) Field of study: Risk management, safety and security.

Dates	April 2006 – January 2007
Title of qualification awarded	Officer in the Italian National Fire Brigade
Principal subjects/occupational skills covered	Entry course
Name and type of organisation providing education and training	Italian Ministry of the Interior - Fire-fighters, Public Rescue and Civil Defence Department – Central Directorate for Education – Rome
Level in national or international classification	11 th place over 48 participants
Dates	November – December 2004
Title of qualification awarded	Italian CBRN military expert
Principal subjects/occupational skills covered	Knowledge about CBRN matters within military activities.
Name and type of organisation providing education and training	Italian Ministry of Defence – Italian Defence General Staff – Italian Joint NBC Defence School – Rieti (Italy)
Level in national or international classification	2 nd place over 30 participants
Dates	June - July 2004
Title of qualification awarded	SIBCRA (Sampling and Identification of Biological, Chemical and Radiological Agents) European course certificate of attendance

Principal subjects/occupational skills covered	Sampling and survey on-site activities of CBRN agents on particular scenarios together with European Army members.
Name and type of organisation providing education and training	Italian Ministry of Defence – Italian Defence General Staff - Italian Joint NBC Defence School – Rieti (Italy)
Level in national or international classification	Not applicable
Dates	April – June 2003
Title of qualification awarded	Officer in the Italian Army-Engineering Corps – Rome
Principal subjects/occupational skills covered	Entry course
Name and type of organisation providing education and training	Italian Ministry of Defence – Italian Army General Staff
Level in national or international classification	Not applicable
Dates	September 1996 - November 2002
Title of qualification awarded	Master degree in Chemical Engineering
Principal subjects/occupational skills covered	Thesis: “Preparation and Characterization of TiO ₂ Nanostructured Photocatalysts” Attended lectures on photocatalytic processes, chemical reactor design, preparations of titania nanoparticles, solar energy conversion and safety and reliability in chemical plants
Name and type of organisation providing education and training	University of Palermo, Italy
Level in national or international classification	Final mark: 105/110
Personal skills and competences	
Mother tongue	Italian
Other languages	English, Spanish
Self-assessment	
European level (*)	
English	
Spanish	
	(*)English: B2 level (*) Spanish: B1 level
Social skills and competences	Good social skills and natural team worker.
Organisational skills and competences	Good organisational skills.

Technical skills and competences	<p>Point of Contact for private factories in order to implement devices/robotic units to be used on CBRN scenarios.</p> <p>Participant in BLEVE working groups within the ADR (Accord Dangereuses Route) committee, invited by the Italian Ministry of Transport.</p>
Computer skills and competences	<p><u>Operating systems</u>: Windows (10, 7, Vista, XP, 2000, Windows 9x)</p> <p><u>Programming languages</u>: C, HTML, Basic</p> <p><u>Packages</u>: Office 2003, Pro IV, Hot spot, Aloha</p>
Other skills and competences	
Additional information	Love to keep fit

Salvatore Corrao



Rome, 09th February 2019