

# Curriculum Vitæ

María Cabrelles, Chemical Engineer



## DEKRA Process Safety

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## Process Safety Consultant

### Professional Profile

**María Cabrelles has over 8 years of experience in process safety for chemical, petrochemical, pharmaceutical and food industries. Her main areas of expertise are hazardous area classification (dust and gas), non-electrical equipment ignition source risk assessment, ATEX electrical installation inspection, ATEX equipment certification, design and inspection of blanketing system, relief system design and chemical reaction hazards assessment. She is accredited as IsmATEX and Saqratex trainer and auditor by ATEX Notified Body Ineris.**

### Specialist Areas of Expertise

- > ATEX (hazardous area classification, risk analysis, explosion protection document, installation inspection)
- > ATEX (equipment certification)
- > Blanketing systems audits
- > Electrostatic audits
- > Chemical reaction hazards assessment
- > Relief system sizing for chemical reactors by DIERS technology
- > Process hazards analysis (HazOP)
- > Incident investigation

### Academic Credentials & Professional Honours

Master Degree in Prevention of Occupational Safety, La Florida, Valencia, 2005

Chemical Engineer, Universidad politécnica de Valencia(UPV), 2003

## Vocational Training

- 2007, Electrical and Mechanical Ismatex, Level 3 - Electrical and non-electrical design, selection, erection and maintenance of ATEX installations, Ineris
- 2007, Electrical safety and CE marking, ITE
- 2008, Integrated management of environmental, quality and occupational safety systems (ISO 9001, ISO 14001 and OSHA 18000), Comisiones Obreras
- 2008 Chemical reaction hazards, Chilworth CTL
- 2010 Electrostatics hazards, Chilworth CTL
- 2012 Safe drying of powders on an industrial scale, Chilworth CTL
- 2012 Process safety management, Chilworth Amalthea

## Prior Professional Experience

- > **Process Safety Consultant, Chilworth Amalthea, 2004 - present**
- > **Project engineer (electrical and industrial projects), Engineer Company Juan José Fernandez Calabuig, 2003 - 2004**
- > **Analyst in the R&D department Control Laboratory, NABERSA, 2004 - 2005**

## Specific Project Experience

### Training:

- 2007-2013: Several open training (ISMATEX: design, inspection and erection, Chemical in ATEX areas, Chemical Reaction Hazards assessment, Safe drying operation, Hazardous area classification)

### HAC/Electrical Equipment Inspection:

- 2013: Givaudan, Sant Celoni, electrical equipment inspection
- 2012: Tüpraş, Izmir (Turkey), HAC and equipment compliance of the refinery
- 2011: McNeil, Ibérica, Alcalá de Henares, Explosion Protection Document
- 2010: Ercros, Almussafes, Explosion Protection Document
- 2010: Hynnergreen Aengoa, Sevilla, Explosion Protection Document
- 2009: Teva, Debrecen (Hungary), Explosion Protection Document
- 2009: GSK, Tres Cantos, Explosion Protection Document
- 2009: Laboratorios Normon, Tres Cantos, Explosion Protection Document
- 2008: GSK, Alcalá de Henares, Risk Assessment of mixer
- 2008: Grupo Mahou, San Miguel, Alovera, Burgos, Malaga, Explosion Protection Document
- 2007: RNB, La Pobra de Vallbona, Explosion Protection Document
- 2007: Roquette Laisa, Benifaió: Explosion Protection Document
- 2007: Quimi Romar, Náquera, Explosion Protection Document
- 2006: Kraft (United biscuits), Barberá del Vallés, Explosion Protection Document
- 2005: Bayer CropScience, Quart de Poblet, Explosion Protection Document

### ATEX Equipment Certification:

- 2012: Dositec, Valencia, technical assistance to get the 94/9/EC certification category 2
- 2011: Vinca, Barcelona, technical assistance to get the 94/9/EC certification category 3
- 2009: Dositec, Valencia, technical assistance to get the 94/9/EC certification category 2 electrical equipment
- 2008: Oliver Batlle, Barcelona, technical assistance to get the 94/9/EC certification category 1 equipment
- 2007: Mengibar, Barcelona, technical assistance to get the 94/9/EC certification category 1 equipment

### Electrostatic Audits:

- 2010: RNB, La Pobra de Vallbona (Valencia), Electrostatic audit
- 2009: Bayer CropScience, Quart de Poblet (Valencia), Electrostatic audit

#### Chemical Reaction Hazard Assessment and Vent Sizing:

- 2013: KERN Pharma, Terrassa, chemical reaction hazard assessment / vent sizing
- 2013: Basf, Tarragona, vent sizing of a propylene sphere
- 2013: IFF, Benicarló, chemical reaction hazard training in company
- 2011: Lubrizol, Sant Cugar del Vallés, DIERS vent sizing of the site's reactors vessels
- 2011: Moehs, chemical reaction assessment and specific training
- 2010: AkzoNobel Packaging Coatings, Vilafranca del Penedés, DIERS Vent sizing of chemical reactor
- 2009: Takasago, Murcia, chemical reaction training in company
- 2008: Hovione, Lisbon, DIERS Vent sizing of several chemical reactors

#### PHA:

- 2013: Naturex, Quart de Poblet, HAZOP of an aroma extraction facility
- 2013, GSK, Alcá de Henares, HAZID and WHAT IF on a pharmaceutical installation (mixing, granulation...)
- 2010, Kemira Ibérica, Torrelavega, HAZOP Treatment of ferrous materials
- 2009: Hovione, Lisbon, HAZOP Chemical Synthesis Reaction

#### Incident Investigation (Confidential clients):

- 2013: Peroxide explosion inside a mixer
- 2013: Flash fire of a ethanol vapour cloud
- 2012: Explosion in a flash dryer
- 2011: Explosion in a rotating dryer
- 2008 and 2009: Explosion and fire in a paraphormaldehyde plant