



CT2M OVERVIEW AND CONSULTANTS RESUMES





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1 Strong points of the offer and commitments of CT2M

❑ Recognized experience and in-depth knowledge of the field

- ✓ CT2M has been training and accompanying companies, organizations and laboratories for more than 25 years in the fields of quality, metrology and estimation of uncertainties.
- ✓ CT2M focuses its training and accompanying on the practice and knows how to adapt their content to the requests of the client
- ✓ CT2M is working in all the field of activities

❑ A young and dynamic team of specialists

- ✓ CT2M offers you a team of engineers that is versatile, responsive, competent, dynamic, available and user-friendly.
- ✓ The consultants of CT2M have accompanied and are accompanying a lot of calibration and testing laboratories in their accreditation projects (see references), on the implementation of both quality and technical requirements.

❑ A human-sized company

- ✓ CT2M is composed of ten people to enable a direct relationship with representative (consultants, laboratory staff, ...).
- ✓ The skilfulness and plurality of the consultants allow a great flexibility in the planning and potential replacement.

❑ A guarantee of independence for the consultants

- ✓ CT2M is neither supplier of equipment nor calibration provider (except mass calibration) nor partner with any of them. Thus the client has the guarantee of independence of the consultants of CT2M in its trainings and its advices, in particular in the choice of the providers.

❑ Internal experience in quality management, metrology and accreditation

- ✓ CT2M has an integrated quality system with a process approach. The three processes meet the following standards:
 - ISO 17025 for the COFRAC accredited laboratory in mass calibration (accreditation No.2-1292 - Scope available on www.cofrac.fr),
 - ISO 17043 for the activity of proficiency testing organizing,
 - AFNOR Certification to the french National Quality Reference System (RNQ): Qualiopi
- ✓ The CT2M engineers have experience in managing a quality management system that complies with the COFRAC requirements. Therefore they have the necessary distance to advise on the simple and effective implementation of a quality system, Metrology and in the estimation of uncertainties;
- ✓ The CT2M consultants are internal auditors and / or COFRAC evaluators according to ISO 17025.

2 CT2M: Mediterranean Technological Center of Metrology

➤ Main activities:

Training / Consulting / Audit

Our mission:

« Supporting companies and laboratories in their Quality and Metrology projects »

Possibilities of interventions:

- ✓ Training
- ✓ Support
- ✓ Technical assistance
- ✓ Audit / Diagnostic
- ✓ Preparation for audit
- ✓ Studies / Expertises



Organisation of interlaboratory comparisons

Our mission:

« Organizing, planning and results processing in accordance with ISO 17043 and ISO 13528 »

Possibilities of interventions:

- ✓ Testing: chemical disinfectants and antiseptics, suspended matter, ...
- ✓ Calibration: micropipette, temperature sensors, weighting scales, ...

Calibration of masses and internal calibrations

Our mission:

« Calibrate and verify masses under COFRAC accreditation »

CT2M has been **accredited by COFRAC** since 1994 for calibration of masses and therefore has a quality management system and organization in accordance with the requirements of ISO 17025_2017 version.

Possibilities of interventions:

- ✓ Calibration of masses from 1 mg to 5 T and non standard masses



➤ Various information:

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No. of activity declaration: N°93 13 05202/13.

ASC code: 7120B

This registration does not imply approval of the state.



3 Consultants resume

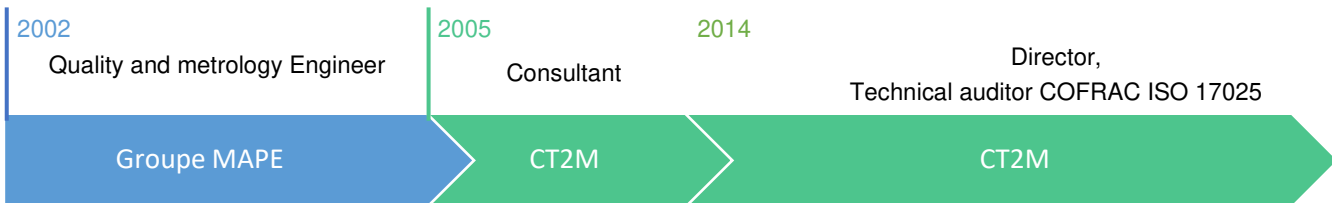


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PROFESSIONAL EXPERIENCE



Education

- Engineer of INPG (Polytechnic Institute of Grenoble)
- Professional thesis « Quality Management » - ENSAM Paris

Professional trainings :

- Internal auditor qualification (2006) and technical auditor COFRAC (2014)
- Management training Level 2 (2017)
- Training on active pedagogy and digitalization in training (2020)

TRAININGS

Technical training:

- Metrology: AP-HM, EDF TEGG, INRA,...
- Estimation of uncertainties (tests, calibration, analyzes): Mirion, IRSN, EFS, CEA,...
- Validation of quantitative and qualitative methods: HCL, CH Toulon, IRSN, TOTAL, CNPE EDF, Institut Pasteur, Coca-Cola, LDA 13, ...
- Validation of qualitative methods: ANSES, IFREMER

Quality training:

- Quality and internal audit according to ISO 17025, ISO 15189 and ISO 9001: INERIS, SNEF, IRSN, SCL, EDF, HCL, LDA 13, ...
- ISO 17025: 2017 and implementation of the Risks and Opportunities approach: Institut Pasteur, IRSN, EDF, Laboratories of analysis, ...

AUDIT - CONSULTING

ISO 17025, ISO 15189, ISO 17020, ISO 17043 et BPL audits:

More than **150 audits** in the following areas:

- Chemicophysical and microbiological (LAB GTA 05, 23, 27, 29, 59, 78) and radiological (LAB GTA 35) sampling and analyzes,
- Anthroporadiometry, Dosimetry, tests on aerosols / radioactive gases,
- Calibration (T °, Balance, pipettes, H, dimensional, masses, electricity, flow measurement, radioactive sources, standard gases),
- Mechanical tests (traction, ...),

Consulting:

- Help with filling a COFRAC accreditation application
- Constitution of method validation file
- Performing uncertainty calculations

Outsourced management of key functions

Metrology manager since 2018 in an accredited lab ISO 17025 and ISO 15189 (LDA 13 – Laboratory of Analysis in South of France)

SUPPORT

- Support for the implementation of ISO 17025 and transition: EDF TEGG, ATMO SUD, CTMNC, ...
- Support in metrology and estimaton of uncertainties: EDF TEGG, CH Toulon, Institut Paoli Calmettes, ...

OTHER MISSIONS

- Coordination of Proficiency testing for EDF and CT2M
- Member of the administration council of the French College of Metrology and International Congress of Metrology

Languages:

- English: fluent
- German: reading
- Spanish: reading

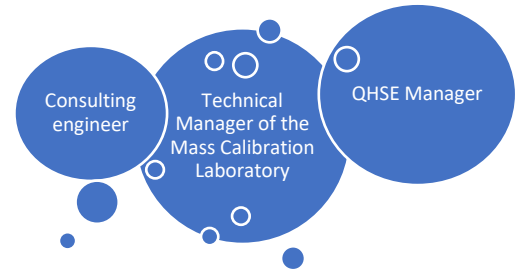


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PROFESSIONAL EXPERIENCE



EDUCATION

- General engineer of the National School of Mines of Albi (ENSTIMAC) - Pharmaceutical Engineering Option

PROFESSIONAL TRAINING

- Level 2 in Management Training (2017)
- Qualification of internal auditor (2006) and COFRAC Quality Evaluator in Juniorate (2018)
- Training on active pedagogy and digitalization in training (2020)

TRAINING

Technical training:

- Metrology through practice: EDF, APHP, CHI Toulon, COCA COLA, HCL, COMURHEX, CNRS, CEA, INRA, Marine Nationale, Colmarienne des Eaux...

- Estimation of uncertainties (tests, calibration, analyzes): ORANO LEA, Institut Pasteur, CEREMA, CIRAD, AIA, ...

- Validation of quantitative and qualitative methods: HCL, IUCT, ANSES

Quality training:

- ISO 17025: 2017 and implementation of the Risks and Opportunities approach: EDF, Laboratoires d'œnologie (FFLOI), Laboratoires Départementaux (ASLAE), Institut Pasteur, IRSN, ...

- Quality and internal audit according to ISO 17025, ISO 15189 and ISO 9001: Oenology laboratories (ASLAE, FFLOI, ...), Medical analysis laboratories

AUDIT - CONSULTING

ISO 17025, ISO 15189 audits:

More than **70 audits** in the following areas:

- Chemicophysical and microbiological (LAB GTA 05, 23, 27, 29, 59, 78) and radiological (LAB GTA 35) sampling and analyzes,
- Anthroporadiometry, Dosimetry, tests on aerosols / radioactive gases,
- Calibration (T °, Balance, pipettes, H, dimensional, masses, electricity, flow measurement, radioactive sources, standard gases),
- Mechanical tests (traction, ...),

Consulting:

- Help with filling a COFRAC accreditation application
- Constitution of method validation file
- Performing uncertainty calculations
- Validation of calculation files

Language:

- English: reading, writing, speaking
- German: reading

Outsourced management of key functions

Since 2012

Quality manager in an ISO 17025 accredited laboratory (NAVAL GROUP - Anthroporadiometry laboratory)

SUPPORT

- Support for the implementation of ISO 17025 and transition: EDF DI, NAVAL GROUP Toulon, ROYAL CANIN, IRSN LEDI, LAMMAN of CEA Marcoule, CRT Morlaix, EDQM

- Support for the implementation of ISO 15189: CHU Nîmes, CH Bastia, CH Avignon, CH Ajaccio, Hospices Civils de Lyon, CHI Toulon, Léon Bérard Hospital (Hyères)

OTHER MISSIONS

- Technical Manager of the CT2M mass calibration laboratory, COFRAC accredited (N ° 2-1292 - Scope available on www.cofrac.fr)
- QHSE manager of CT2M
- Coordination of Proficiency testing in balance calibration

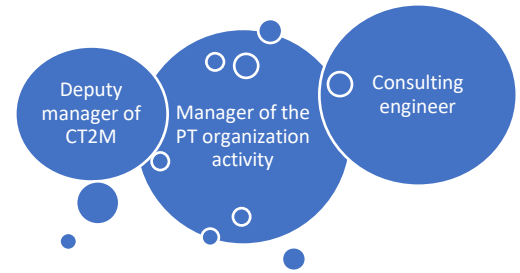


Boris GEYNET

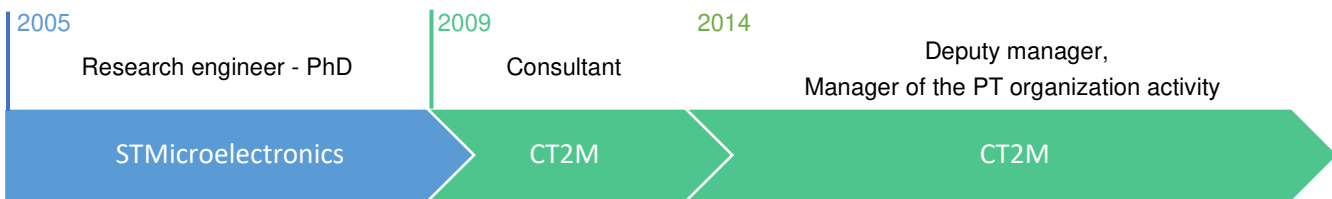
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PROFESSIONAL EXPERIENCE



EDUCATION

- General engineer of the National Institute of Applied Sciences (INSA Toulouse)
- PhD at the University of Sciences et Technologies of Lille (USTL)

MAIN PROFESSIONAL TRAINING

- Qualification of internal auditor (2009)
- Management Training (2018)
- Training on active pedagogy and digitalization in training (2020)

TRAINING

Technical training:

- Metrology: HCL, EDF, INRA, IRSN, IPSEN, CEA...
- Uncertainty estimation (tests, calibration, analyzes): IRSN, SAFRAN, Métropole de Lyon, INRA, AP-HP...
- Methods validation: Lactalis, AveyronLabo, HCL, IRSN, EDF, LyondellBasell, CH Avignon, CEA, IRFAQ...
- Metrological equipments calibration: Moteurs Baudouin, Commissariat des Armées, SCL, Ariane Space...

Quality training:

- Quality and internal audit according to ISO 17025, ISO 15189 and ISO 9001: TOTAL, CEA, IRSN, EDF, 13.56 Services, AP-HP...
- ISO 17025: 2017 and implementation of the Risks and Opportunities approach: IRSN, CEA, ICUBE, Laboratoires d'œnologie, ORANO...

AUDIT - CONSULTING

Audits ISO 17025, ISO 15189, ISO 17043:

More than **100 audits** in the following areas:

- Chemicophysical and microbiological sampling and analysis of water, agrifood products, enology, human and radiological health,
- Equipment calibration (Temperature, balance, dimensional, masses, electricity, flow meter, volume)
- Organization of inter-laboratory comparisons (animal health, plants, radiological measurements, ...)

Consulting:

- Help with filing a COFRAC accreditation application
- Creation of method validation files
- Expertise on the estimation of measurement uncertainties
- Implementation of the process approach according to ISO 17025

Outsourced management of key functions

Metrology Expert (since 2019) of the multisite medical biology laboratory of the hospital of Lyon (ISO 15189 accreditation)

SUPPORT

- Support for the implementation of ISO 17025 and ISO 15189: 13.56 Services, IRSN, CEA, ICUBE, DEJEAN, CH Avignon, HCL, ORANO, HUPSSD, ED, CH Perpignan...
- Support for metrology management and estimation of uncertainties: HCL, IRSN, CEA...

OTHER MISSIONS

- Coordination of Proficiency Testings for CT2M (Temperature, Volume, Effectiveness of chemical disinfectants)
- Deputy Technical Manager of the CT2M calibration laboratory

Langues :

- English: reading, writing, speaking
- German: reading

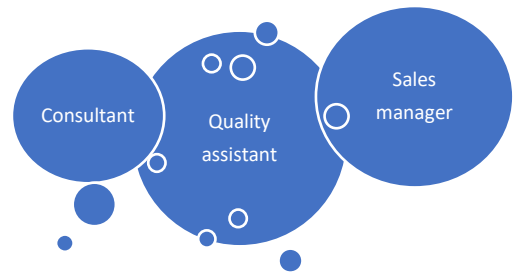


Nathalie SUGLIANO

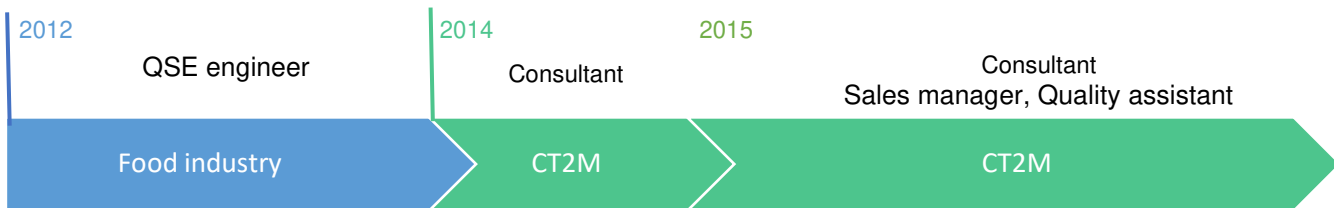
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PROFESSIONAL EXPERIENCE



EDUCATION

- French school in food industry – Option: QSE

FORMATIONS PROFESSIONNELLES

- Business development, prospecting and communication, 2017
- Presentation and interpretation of the requirements of ISO 17065, 2017
- Training on active pedagogy and digitalization in training (2020)

TRAINING

Technical training :

- Metrology through practice: EDF INRA, DGA, ...
- Estimation of uncertainties: IRSN, DGA, sigma béton, Larebron, Coca-cola ...
- Validation of quantitative methods: EDF, Colmarienne, laboratoires d'œnologie, ...
- Food industries metrology

Quality training:

- Quality and internal audit according to ISO 17025, ISO 14001, ISO 17020 and ISO 9001: IRSN, EDF, HCL, LDA, Orano, Aviation civile, Nexans, ...
- ISO 17025:2017 and implementation of the Risks and Opportunities approach: CNFPT, LDA (11, 21, 972), IRSN, ...
- Process approach: LDA, CEA

AUDIT - CONSULTING

ISO 17025, ISO 17043 audits:

- More than **40 audits** in the following areas:
- Sampling and analyzes in chemicophysical, microbiological and radiological of water, agro-food / plant products, materials,
 - Anthroporadiometry, Dosimetry, radiation protection,
 - Asbestos, air quality / work environments
 - Calibration (mass, balance, flow measurement,)

Metrology audit:

- Temperature, balance, mass, dimensionnal, volume, medical devices (centrifuge, thermocycler, ...)

Consulting

- Performing uncertainty calculations
- Validation of calculation files

Outsourced management of key functions

Since 2019
Quality manager, in a laboratory that is accredited to ISO 17025 (SEVAR)

SUPPORT

- Support for the implementation of ISO 17025 and transition: SEVAR, EDF CNPE Golfech et TEGG, OENOLOGIE, ...

OTHER MISSIONS

- Quality assistant for the training / audit / consulting activity
- Coordination of Proficiency Testings for CT2M (electricity)

Language:

- English : reading, writing, speaking

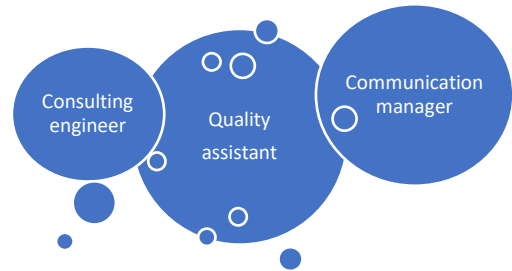


Lise HEGRON

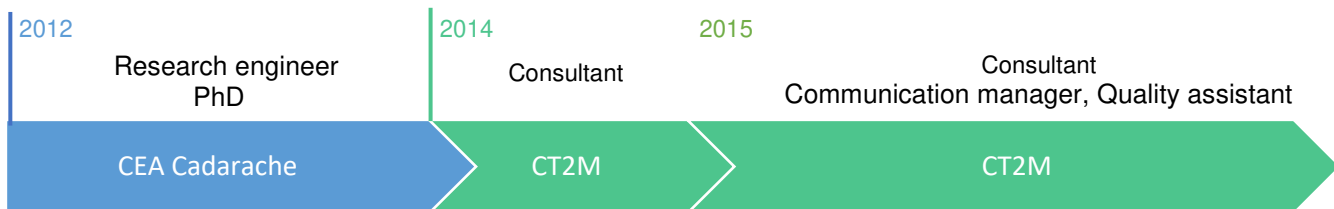
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PROFESSIONAL EXPERIENCE



EDUCATION

- French school in ceramics engineering
- PhD at the University of Aix-Marseille (France) in solid mechanics

PROFESSIONAL TRAINING

- Qualification of internal auditor (2014)
- Training on active pedagogy and digitalization in training (2020)

TRAINING

Technical training:

- Metrology through practice: EDF (Chinon, Penly), INRA, DGA, ...
- Metrology awareness: AP-HP, ONERA, EDF, HCL
- Estimation of uncertainties (essais, étalonnage, analyses) : IRSN, DGA, ...
- Validation of quantitative methods: IRSN, ...
- Oral presentation at the French Metrology College

Quality training:

- Quality and internal audit according to ISO 17025, l'ISO 15189, l'ISO 17020 and ISO 9001: Medical analysis laboratories, IRSN, EDF, HCL, LDA, Orano, Civil aviation, AP-HP, LHL, Eurofins, SNEF, ...
- ISO 17025:2017 and implementation of the Risks and Opportunities approach: CNFPT, LDA (11, 21, 972), IRSN, ...
- Process approach: LDA 82, CEA

AUDIT - CONSULTING

ISO 17025, ISO 17043 audits:

- More than **40 audits** in the following areas:
- Sampling and analyzes in chemico-physical, microbiological and radiological of water, agro-food / plant products, materials,
 - Anthroporadiometry, Dosimetry, radiation protection,
 - Asbestos, air quality / work environments
 - Calibration (mass, balance, flow measurement,)

ISO 17020 audits:

- Inspection in catering, health and radiation protection

Metrology audit:

- Temperature, balance, mass, dimensionnal, volume, medical devices (centrifuge, thermocycler, ...)

Consulting

- Performing uncertainty calculations
- Validation of calculation files

Outsourced management of key functions

Since 2019

Quality manager, in a laboratory that is accredited to ISO 17025 (*Naval Group*)

Quality assistant, in a laboratory that is accredited to ISO 17025 and ISO 17043 (*IRSN*)

2018-2019

Quality manager, in a laboratory that is accredited to ISO 17025 (*SEVAR*)

SUPPORT

- Support for the implementation of ISO 17025 and transition: IRSN, Naval Group, SEVAR, GREBE

OTHER MISSIONS

- Quality assistant for Proficiency Testing activity (ISO 17043)
- Coordination of Proficiency testing in mass calibration (3 PT since 2018)
- Management of the Label: « *Label Fiabilité Mesures* » (reliability in measurement)

Language:

- English: reading, writing, speaking
- German: reading

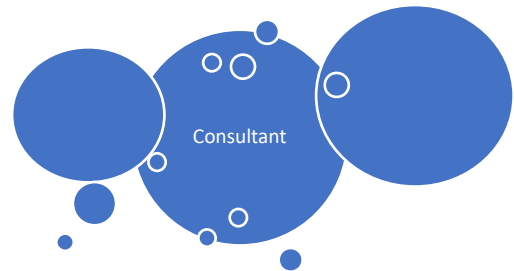


Caroline QUIEVRYN

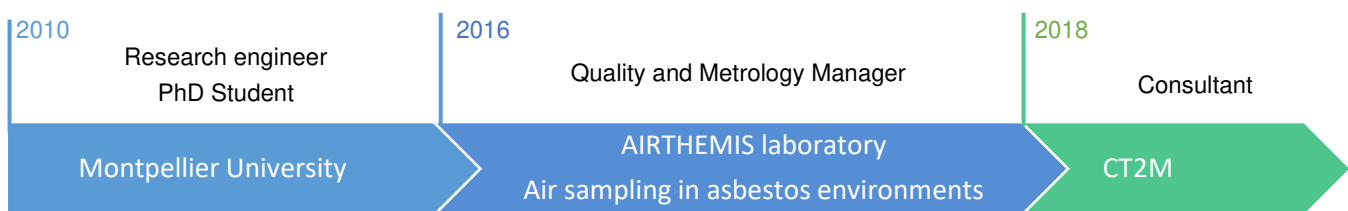
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PROFESIONALEXPERIENCE



EDUCATION

- French engineering school in textiles (specialization in technical textiles and advanced materials)
- PhD Student in Montpellier University, specialization in chemistry and chemico-physical materials

PROFESIONAL TRAINING

- Validation of methods (2019)
- Presentation and interpretation of ISO 17025 requirements (2018)

TRAINING

Technical training:

- Metrology introduction: CSIRO, EDF (CNPE Bugey), EDF, GCF, ARCELOR
- Estimation of uncertainties introduction: CSIRO, SOBEGI, EDF (CNPE Bugey), GCF
- Become a laboratory technical manager: ORANO, CEA, IRSN

Quality training:

- Risks and opportunities approach: CHR Lille, CRT Morlaix, ORANO,
- ISO 17025 : 2017 : EDF, Laboratoires d'œnologie, A2M, TERANA, LVD11, DGA
- Become a laboratory quality manager: ORANO, EDF, ABDE, NEXANS, SCL, ARCANE, CRT Morlaix...

AUDIT - CONSULTING

Audits:

- Measure reliability label: IRSTEA
- Audit of support processes in CT2M

Consulting:

- Validation of spreadsheet (EDF)

Other missions

- Set up and validation of Excel tools (VBA)
- Preparation and participation in intern audits and COFRAC evaluations
- Set up and validation of calibration methods

Outsourced management of key functions

Since 2020

Metrology manager (support), in a laboratory that is accredited to ISO 17025 (EDF Blayais)

Support

- Support the ISO 17025 transition: ILL, laboratoire œnologique, LDV11, EDF (CNPE Tricastin), SOBEGI
- Support to metrology function management: EDF (Blayais)

Langages :

- English: reading, writing, speaking
- Japanese: Beginner



4 Your contacts

Technical contact for training activities: David BENHAMOU

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5 Legal informations

Company: CENTRE TECHNOLOGIQUE MÉDITERRANÉEN DE MÉTROLOGIE (CT2M)

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6 Our references

They regularly trust us ...

