

FOR SEMICONDUCTOR AND

HIGH-TECH APPLICATIONS



## Vacuum technology & maintenance training

OPERATORS ▪ TECHNICIANS ▪ ENGINEERS



### YOUR GOALS

- Enhance equipment reliability
- Maintenance cost reduction
- Uptime improvement
- Skills development

### OUR TRAINING METHODS

- Hands-on training
- Training plan
- Maintenance coaching
- E-learning

VACUUM TECHNOLOGY ▪ TROUBLESHOOTING  
INDUSTRIAL RF ▪ OPTIMAL USE OF EQUIPMENT



Trainingby4030.com

When it comes to equipment,  
what you see is only the tip  
of the iceberg



RF GENERATORS  
PUMPING SYSTEMS  
POWER SUPPLIES  
REMOTE PLASMA SOURCE  
LEAK DETECTORS  
CHILLERS

PROCESS CHAMBERS  
ELECTRONIC AND ROBOTIC  
MASS FLOW CONTROLLERS  
VACUUM ELEMENTS  
MANOMETERS  
VALVES



## OUR TRAINING APPROACH



### Why choose us

We apply advanced methodologies with hands-on training on real size equipment, tutored e-learning, theoretical courses or skills development programs.

We can offer tailored learning programs to meet a particular corporate strategy, trainees' proficiency or organizational need. We propose more than 50 technical training modules for semiconductor and microelectronics industry.

We deliver the benefits of both training centers and OEMs, through our thorough training infrastructure and largescale training equipment, all brands, all models available. We build certifying training modules in partnership with renown training institutions.



Check out our training areas at  
[www.trainingby4030.com](http://www.trainingby4030.com)



## OUR TRAINING OFFER



### VACUUM TECHNOLOGY

- Vacuum physics & technology
- Cleanroom engineering design
- Helium leak detection
- Residual gas analyser and mass spectrometry
- Ultra-clean refurbishment techniques
- Ultrasonic cleaning
- Vacuum system

### OPTIMAL USE OF EQUIPMENT

- Helium leak detectors
- Residual gas analyzers
- Vacuum instruments & calibration
- Clean concept behavior in cleanrooms
- Chillers and cooling systems
- Safety

### SPECIFIC MAINTENANCE

- Rotary vane pumps
- RF technology and sub-assembly repair
- Cleanroom maintenance
- Roots blowers



Trainings in  
French & English



E-learning modules  
available



## MORE THAN 50 TRAINING TOPICS



### **TROUBLESHOOTING**

Vacuum systems  
Turbomolecular pumps  
Cryogenic pumps  
Chillers  
Plasma equipment  
Complex instruments

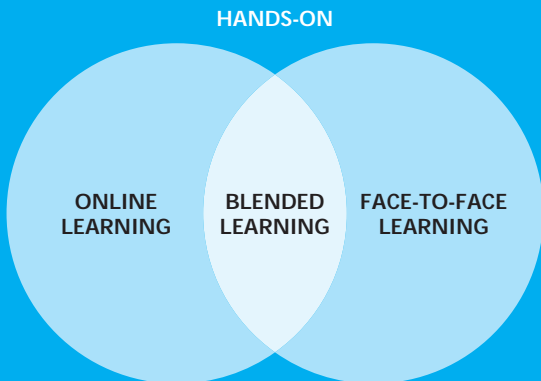
### **INDUSTRIAL RADIO FREQUENCY**

Principles and techniques  
RF diagnosis on etching & deposition equipment  
RF with technical applications HPCVD Rack  
RF-Plasma interaction

### **JOB QUALIFICATIONS**

Leak detection NDT certification levels 1, 2 and 3, according to ISO9712  
Specialist in vacuum and UHV systems for microelectronics and space industry  
Electronic engineer support for test & development  
Support technician of vacuum systems  
Maintenance engineer - plasma equipment

Need to book a training?  
Call us at +33 (0)4 76 87 40 30



## OUR TOOLS AND METHODS



Our vision of the future of training is translated through continuous investment and improvement in teaching tools:

- Conversion of our IT to the Cloud model
- New communication and training tools  
*i.e. Skype for Business*
- Development of e-learning courses  
*Mooc, virtual classes, forums, quizzes, etc.*
- Collaborative mean of knowledge transfer, AMPS®

### 40-30 Customer-focused training quality management system

#### 1. ANALYSING Needs Analysis / Evaluation quiz

*To evaluate trainees' knowledge level*

#### 2. PREPARING Course design e-Learning / Planning

*To optimise the course*

#### 3. TEACHING Learning & Training application

at customer's site *To learn required skills*

#### 4. QUALIFYING Evaluation quiz / Knowledge validation

*To check knowledge acquisition & deliver a competence certificate*

#### 5. FOLLOW-UP Feedback

*To continuously monitor and improve*



## CUSTOMER & PARTNER REFERENCES

**These companies trust us  
to train their teams**

CERN ▪ ALSTOM ▪ AGILENT VACUUM  
AIRBUS ▪ AIR LIQUIDE ▪ EM MICROELECTRONIC  
ILL ▪ ESRF ▪ CNRS ▪ GENERAL ELECTRIC  
BOLLORE ▪ CEA ▪ LETI  
CNES ▪ CORIAL ▪ IBA ▪ IMEC  
INES ▪ INFINEON ▪ KOBUS LUMILED  
SAFRAN ▪ SIEMENS ▪ SOFRADIR  
SOITEC ▪ SOURIAU ▪ ST MICROELECTRONICS  
THALES ALENIA SPACE ▪ ULIS IR  
VALEO ▪ WITZENMANN  
X-FAB

EUROPEAN PARTNERS



**360Learning**



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Calibration  
Accreditation  
n°2-1386  
Scope available  
on [www.cofrac.fr](http://www.cofrac.fr)



Check out our training areas at  
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COFREND NDT Training Center: NDT qualified personnel according to standard ISO 9712 & EN 4179  
COFRAC: Vacuum accredited calibrations according to ISO/CEI 17025  
CEFRI: French certification for radioprotection management