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DIETSMANN QUALIFICATION COLLEGE TRAINING PROGRAMS & QUALIFICATIONS

www.dietsmann.com

Operation & Maintenance skills provider for the oil & gas, conventional & nuclear power generation and mining industries

SMART MAINTENANCE SOLUTIONS START WITH KNOWLEDGE AND SKILLS





Photo courtesy of Cybernetix TechnipFMC

ABOUT **DIETSMANN TECHNOLOGIES**

Dietsmann Technologies is an operating company of Dietsmann, the leading independent specialist in Operation & Maintenance services and Maintenance Engineering & Inspection for continuous production plant in the oil & gas, conventional & nuclear power generation and mining industries, and works in accordance with good practices and Dietsmann's Quality Management System.

Dietsmann Technologies is Headquartered in a 24,000m² engineering and construction facility in Salies du Salat in south-west France and works closely with Dietsmann's 1,500m² maintenance and inspection engineering Technical Support Center in nearby Toulouse. Dietsmann Technologies also has permanent satellite facilities in Gabon, the Republic of Congo and Angola from where it works on substantial projects with energy company clients and contractor partners. Its engineers and technicians are ready to be mobilized for turnkey projects anywhere in the world.

The Dietsmann Qualification College, located in Boussens, 5 kilometers from Salies du Salat, provides customized training programs and qualifications to the oil & gas, power

generation and mining industries as well as other industries, technical and engineering establishments. The total training area of 1,000m² includes a 500m² workshop. This workshop contains examples of equipment that needs to be maintained at sites including rotary machines, pumps, alternative and centrifugal compressors and sets of the most frequently used spare parts. Metrology training takes place in a dedicated, fully equipped room that replicates the metrology rooms found on site. The training area also includes two classrooms, an electrical workshop and an e-learning room.

The College benefits from easy access to the highway and rail networks and Toulouse airport. It takes no more than an hour to reach Boussens from anywhere in France.

3 TECHNICAL SITES IN FRANCE

SALIES-DU-SALAT

E&I Engineering Construction - A 24,000m²
Engineering and Construction facility
including an HVAC bench for factory
acceptance tests

TOULOUSE

Technical Support Centre - A 1,500m²
Technical Support Centre providing Maintenance
Engineering & Inspection (MEI) support to
Dietsmann sites

BOUSSENS

DIETSMANN Qualification College - A 1,000m²
facility providing Maintenance training
& certification with:

- Mechanical , electrical, instrumentation, HVAC and metrology workshops/rooms
- HV / LV electrical accreditation room
- Instrumentation benches (gas & fluid loop)
- HVAC bench
- An E-learning room, 2 classrooms and a 500m² workshop



THE PHILOSOPHY - A TAILOR-MADE SOLUTION

TRAINING THAT GUARANTEES QUALITY
AND EXPERTISE

AND INDUSTRIAL FIELD COMPETENCIES

- Mechanical
- Instrumentation
- Electrical
- Heating, ventilation and air conditioning
- Maintenance engineering courses



TRAINING CUSTOMIZED TO YOUR OPERATIONAL NEEDS

The Dietsmann Qualification College, with its extensive experience in mechanical engineering, electrical engineering, instrumentation, HVAC and Maintenance Engineering as well as regulatory technical training (electrical qualifications, ATEX), is the expert in field maintenance. Qualification courses and programs are customized to answer your needs. Even if trainees have no previous experience the College will take them all the way through from an initiation course to the required qualification. The College can also offer an All-In training program package that incorporates and encompasses all your specific requirements.

THE COLLEGE'S TRAINING COURSES AND PROGRAMS COVER A WIDE SPECTRUM OF MAINTENANCE-RELATED SKILLS:



MECHANICAL

Training courses & qualifications

- Coupling between pipes or components (selection and execution)
- Flange sealing (the various sealing systems and metal gasket fitting)
- Metrology
- Vibration measurement
- Endoscopy

For

- Centrifugal / Volumetric compressors
- Pumps & compressors

ATEX certifications (INERIS)

- Mechanical staff levels 0 to 2

INSTRUMENTATION

Training courses & qualifications

- HART protocol
- Regulation loop:
 - Gas loop / Liquid loop mounting
- Program Logic Controller set-up
- Fire Gas Security
- Vibration monitoring
- Instrumentation calibration:
 - Level / Flow / Temperature / Pressure

ATEX certifications (INERIS)

- Electrical/instrumentation staff levels 0 to 2

ELECTRICAL

Training courses & qualifications

- Introduction to electrical schematics
- Protection relays - Operator / Supervisor level
- Thermography
- Interlock consignment

Electrical Accreditations

- For electrician and non-electrician
- Refresher programs

ATEX certifications (INERIS)

- Electrical staff levels 0 to 2



HEATING, VENTILATION & AIR CONDITIONING

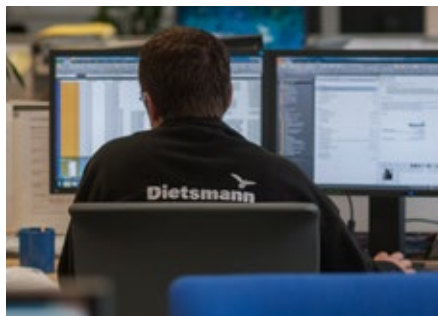
Training courses & qualifications

Junior

- Air evolution - Psychrometric chart
- Principle of refrigeration & air conditioning installations
- HVAC technologies/components

Senior expert

- Basics of fluid handling, gas charge & discharge in accordance with regulations
- Air conditioning system trouble shooting and failure diagnostics training
- HVAC integrated system & Human Machine Interface (HMI) exploitation



MAINTENANCE ENGINEERING

Training courses & qualifications

Introduction to Maintenance Engineering

- Hierarchy breakdown
- Criticality study
- Lubrication study
- Failure mode, effect & criticality analysis
- Rotating permutation plan & maintenance planning studies



GTIS JOINTING CERTIFICATION

Training courses & certifications

- Level 1 and 2
- Bolt torquing
- Flange sealing (the various sealing systems and metal gasket fitting)



Photo courtesy of Taurob



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NEW: ROBOTICS EXPERIMENTATION FACILITIES IN BOUSSENS

In addition to the 'conventional' training and education applications for which the BousSENS Qualification College was designed and is being used, the facilities also offer ample opportunities for the testing of robotic technologies.

The deployment of robots for certain operation & maintenance related tasks is expected to become the norm within the foreseeable future. Developers of this new technology are currently focusing their attention on the industrial/ petrochemical applications for (semi-) autonomous robots.

These applications include, e.g., Non Destructive Testing (NDT)-tasks during the regular inspections of installations such as pressure vessels, storage tanks and larger diameter piping. Or the cleaning of equipment at difficult accessible locations.

As robots can be controlled remotely and maneuver 'independently' they could also be used to perform certain (standard and non-standard) tasks on unmanned platforms or in specific circumstances.

Other applications for robots include using drones for inspections of larger vessels and heat exchangers, flare systems or piping. The oil and gas industry is focusing continuously on working more efficiently and effectively and the utilization of robots will play a role in achieving this.

Developments in the area of Augmented Reality (AR) and Virtual Reality (VR) are now being implemented within the industry. The new training tools they are providing help operators and maintenance staff achieve the required quality level.

Operations and maintenance activities at high-capital industrial sites must be adapted to take into account changing circumstances and increasing demands in the area of Health, Safety, Social, Security, Environment and Quality (HSEQ). 'New Technologies' can be of great assistance when it comes to such challenges. Before adaptations are implemented in 'real-life' situations they must be tested, not only from a technical point of view, but also in respect of the 'human-interaction and (social) acceptance aspects.

Augmented Reality (AR) and Virtual Reality (VR) are prime examples of technology that supports changes in the day-to-day working environment and in particular in staff training. Developments in these evolving technologies are now being implemented within the industry. The new training tools they are providing can help operators and maintenance staff achieve the required quality level.

Facilities and opportunities, such as those available in the Dietsmann Qualification College, not only enable the use of robotics and other new technologies in mechanical, instrumentation and/or electrical applications to be tested on realistic industrial equipment, they also enable technicians to acquire the required competencies and qualifications related to these technological developments.



A REFERENCE PARTNER

ADDED VALUE AND STRENGTHS

Heavy operational machines

- Practical training in using the operational equipment found on site, such as reciprocating and centrifugal compressors and centrifugal pumps

Simulated operating conditions

- Testing benches equipped with fluid and gas loops simulate operating conditions
- Theoretical training is consolidated through practical exercises and tests
- 500m² practice area

Experts with a disciplined approach

- Trainers selected on the basis of their expertise and knowledge acquired on Dietsmann sites around the world and their teaching skills

Training packages customized to your needs

- Training courses and programs configured to the client's needs
- Qualifications customized to meet the client's operational needs

OUR COMMITMENT

THE DIETSMANN QUALIFICATION COLLEGE IS COMMITTED TO

- Providing a high standard of training and training facilities and creating a pleasant atmosphere that is conducive to learning
- Providing training courses and programs that meet clients' target specifications
- Providing trainees with constant support throughout their training
- Respecting AFNOR certifications (Training courses comply with AFNOR norms: 9001 & 14001; OHSAS 18001)

OUR TRAINERS

ALL DIETSMANN QUALIFICATION COLLEGE TRAINERS

- Are experienced professionals in their particular discipline
- Have considerable in-the-field experience gained working on operating sites around the world
- Are skilled teachers and communicators



OVERVIEW OF REFERENCES WORLDWIDE

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