Because ensuring a leak-free solution is critical. It has to be Hydratight.

For more than 100 years, Hydratight has provided world-class bolted joint solutions, assessing and managing joints to ensure leak-free start-ups. Today, we continue to set international standards in joint integrity—but we’re so much more than just a bolting and on-site machining company.

Because even the tiniest leak can be costly and time consuming to repair, we manage every joint on a project for leak-free start-ups and production, which in turn removes the threat of environmental impact caused by unsafe joints. Safety continues to be the most important aspect of our business. We are a global organisation making a real difference to the industries and communities we work in, committed to improving safety, operational efficiency and uptime.

Because you require the support of an innovative partner committed to your success, we not only offer unrivalled service on a global scale, including customer training and software development; but also design and manufacture quality tools and equipment for bolted joint solutions to the highest standards. Our certified teams are dedicated to working closely with you, assessing and managing every joint on your project to prevent leaks from ever occurring, year in, year out.

Because you value safety and reliability, we work to ISO 9001, ISO 14001 and OHSAS 18001 standards in everything we produce, from manufacturing torque and tension bolting equipment to mechanical connectors, from on-site service to creating custom solutions in line with client specifications.

It means that whenever you need a complete joint integrity solution, whichever industry sector you’re in, you can rely on us to get it 100% right first time, every time. This is why it has to be Hydratight.
Accredited Training Providers

The global experience of Hydratight means that we are uniquely qualified to deliver training to industry-leading standards.

Our unrivaled commitment to ensuring that Hydratight Training Instructors are fully competent in the courses that they deliver means that we are able to offer the most advanced training available, anywhere in the world. As a matter of course, they are all equipped with industry specific experience and follow an internal Training Instructor and Examiner approval process fully verified by regional external qualifications where applicable.

Every business is defined by the quality of its people and their ability to deliver; our accreditations ensure that every time your personnel undertake Hydratight training, they are receiving the very best the industry can offer.

Accreditations
Hydratight’s focus on training excellence and high levels of accreditation set us apart. Our Global Training Division is approved, endorsed and accredited by numerous external awarding bodies as detailed below:

- ECITB Mechanical Joint Integrity Units Approved Training Provider
- ASME PCC-1-2013 Appendix A Qualifying Organization

Industry Compliance
Hydratight comprehensive training courses comply with the requirements of an extensive range of training standards and guidelines:

- ECITB Mechanical Joint Integrity
- ASME PCC-1 Appendix A – Training and Qualification of Bolted Joint Assembly Personnel
- EN 1591-4 Flanges and their joints - Qualification of personnel competency in the assembly of the bolted connections of critical service pressurized systems
- Step Change in Safety Mechanical Joint Integrity Route to Competence Guidance
- Energy Institute Guidelines for the management of the integrity of bolted joint for pressurised systems
- OLF Flange Work 118 Guideline
Why Train?

Hydratight has been raising standards in on-site safety operation and training excellence throughout all industries world-wide.

In March 2012, Step Change in Safety released the “Mechanical Joint Integrity Route to Competence Guidance” to support the initiative of a 50% reduction in hydrocarbon leaks.

Input, feedback and support for this new competence guideline includes operators, contractors, service companies, standard setting bodies, training providers and subject matter specialists.

Its key aims are to:
• Reduce/prevent hydrocarbon leaks in the UK by 50% by reducing human error in the making and breaking of mechanical joints via improved training and competence standards and processes.
• Ensure all individuals involved in the making and breaking of mechanical joints in the UK are assessed to Stage 3 of the ECITB MJI process.

This guidance includes a 4-stage training and competency model, underpinned by National Occupational Standards and delivered via ECITB Mechanical Joint Integrity Technical Training Standards, with approved training courses/technical tests. ECITB technical training covers isolations, dismantling techniques, inspection of components, alignment techniques and clamp connectors as well as assembly and tightening techniques in specialist critical bolting.

While initial training provides vital education on achieving required standards, it is not a benchmark of core competency in the task. To achieve the very highest performance levels, we believe that the “Route to Competence” involves following a documented path including additional workplace experience, supported by continuous practical and theoretical testing:

Training – Effective standardized programs provided in line with our “Technical Training & Competency Manual”.

Workplace Evidence (pre-assessment) – Trainees document and submit workplace evidence under supervision (via a logbook) and appraisal by a competent person or supervisor.

Theoretical Technical Assessment – To prove the technical knowledge and understanding of the trainee, a theoretical test is delivered via a questionnaire covering all aspects of the task.

Simulated Practical Assessment – A simulated practical test is carried out under controlled conditions by an approved assessor/examiner against a checklist of key test criteria.

On-going Assessment – Every 3 years there is re-certification required via technical theory test and practical assessment.

Stage One
Training
(Instructor based theory and practical)

Stage Two
Workplace Experience
(Supervised and documented)

Stage Three
Assessment
(Approved test center, theory and practical knowledge)

Stage Four
Re-assessment
(Every three years as a minimum)
Our Training Instructors

Hydratight's quality and experienced instructors are a fundamental component in the successful delivery of our training courses.

One of the key factors in our continued drive to improve bolted joint integrity training and increase industry competency levels is having regional trainer capability to deliver the necessary training and carry out assessments in-line with best practice methods and systems.

Instrumental to this has been the introduction of a technical-specific “Train the Trainer” program, which has been successfully implemented based on three key modules:

- **Training** – in the course to be delivered
- **Delivery** – of the course theory and practical instruction to an approved assessor/examiner
- **Assessment** – ongoing throughout the modules, followed by one-on-one assistance and coaching until competence is satisfactorily established.

On successful completion, delegates are internally approved to deliver the required training, issue certification, carry out competency assessments and control training records to provide full traceability.

Hydratight ensures that every member of your team is not just fully trained and knowledgeable but completely safety focused. To do this requires instructors of the very highest caliber.

As a result of our rigorous internal development process, Hydratight Training Instructors are fully competent in the courses they deliver, with industry specific experience at the very highest level.

All instructors follow an internal Training Instructor and Examiner approval process verified by formal regional external qualifications where applicable. This ensures all trainees are universally provided with best in class coaching and industry guidance.
Training Courses

As accredited training providers, Hydratight will ensure all personnel responsible for the integrity of bolted connections, on-site machining and associated joint integrity management activities are trained and assessed to industry best practice.

Key to this is our ability to deliver the very highest standards in a wide range of areas, from bolted joint integrity to joint integrity management and on-site machining. Technical development, training and assessment programs include:

**Bolted Joint Integrity**
- Torque
- Tensioning
- Nut-splitting
- Spreading
- Alignment
- Isolation
- Connectors
- Pressure services

**On-site Machining**
- Pipe cutting
- End prepping
- Flange/joint facing
- Drilling
- Milling
- Line boring

**Joint Integrity Management**
- Software
- Inspection
- Procedures
- Quality assurance
- Project management

In all instances, training is structured to provide practical and theoretical training in-line with best practice procedures.

Individual workplace assessment is via completion of personnel logbooks to record site experience, prior to further technical and practical assessment to the required competence level.

Hydratight’s Technical Training Synopsis is available to download from: hydratight.com/training.
Approved Training Centers

Our world-class approach to training is reflected in the care we take to ensure that all participant trainees have access to world-class facilities in numerous regional locations. Hydratight’s international training centers contain classrooms for theory sessions and well equipped workshop areas for practical sessions.

You’ll find all our regional approved centers detailed within the Training section of the Hydratight website at: hydratight.com/training.

The geographical scope of our operation means that Hydratight also has the ability to deliver highly effective training on-site using its approved portable training rigs.

It’s all part of our total commitment to ensuring that wherever you are in the world, you will always have access to unrivaled training support.
Our global network means that you can rely on the right people, products, and services wherever you are in the world.

Email us at: solutions@hydratight.com
Or find your local representative at: hydratight.com/contact