



Online eLearning Courses @ Hydratight

Hydratight is a leading and preferred training provider to major operators, contractors, and training management service companies due to our extensive field service experience, subject matter expertise in Joint Integrity Assurance™ and our proven training track record.

The Hydratight Academy is now able to supplement our instructor led training courses with flexible online training options covering the health, safety, quality, and technical knowledge elements found within our standard training courses.

Attendance of highlighted courses within the Hydratight Integrity Assurance Series can be supplemented with hands-on practical instructor led training for learners to achieve full course certification.

Contact eLearning@hydratight.com to enrol on Hydratight Academy eLearning courses or visit our [LDMS](#) to view additional course information.



eLearning Platform	Page
Learning Development Management System (LDMS)	2
Hydratight Integrity Assurance Series – eLearning Courses	
Joint Integrity Level 0 – Technical Foundations	3
Joint Integrity Level 1 – Hand Torque Techniques	3
Joint Integrity Level 2 – Hydraulic Torque Techniques	3
Joint Integrity Level 3 – Bolt Tensioning Techniques	3
Joint Integrity Level 4 - Single Stud Replacement (MorSafe)	3
Joint Integrity Level 5 - Process Engineering Drawings	3
Joint Integrity Level 6 - Integrity Quality Assurance	3
Joint Integrity Level 7 - Informato Calculation Software	3
Joint Integrity Level 8 - iDMS Joint Integrity Software	3
ECITB Mechanical Joint Integrity - eLearning Courses	
Hand Torque Bolted Connection Techniques	4
Hydraulically Tension Bolted Connection Techniques	4
Hydraulically Torque Bolted Connection Techniques Module	4
Hydraulically Torque Bolted Connection Techniques	4
Hydraulically Torque & Tension Bolted Connection Techniques	4
ASME PCC-1-2022 Appendix A - eLearning Courses	
Bolting Assembler Training	4
Powered Equipment Endorsement Training	4
Heat Exchanger Endorsement Training	4
Special Joint Endorsement Training	4



Learning Development Management System (LDMS)

In order to manage and deliver our eLearning courses the Hydratight Academy has developed a bespoke learning development management system which can be accessed via www.ldms-joint-integrity.com or via the dedicated eLearning page within our website hydratight.com.

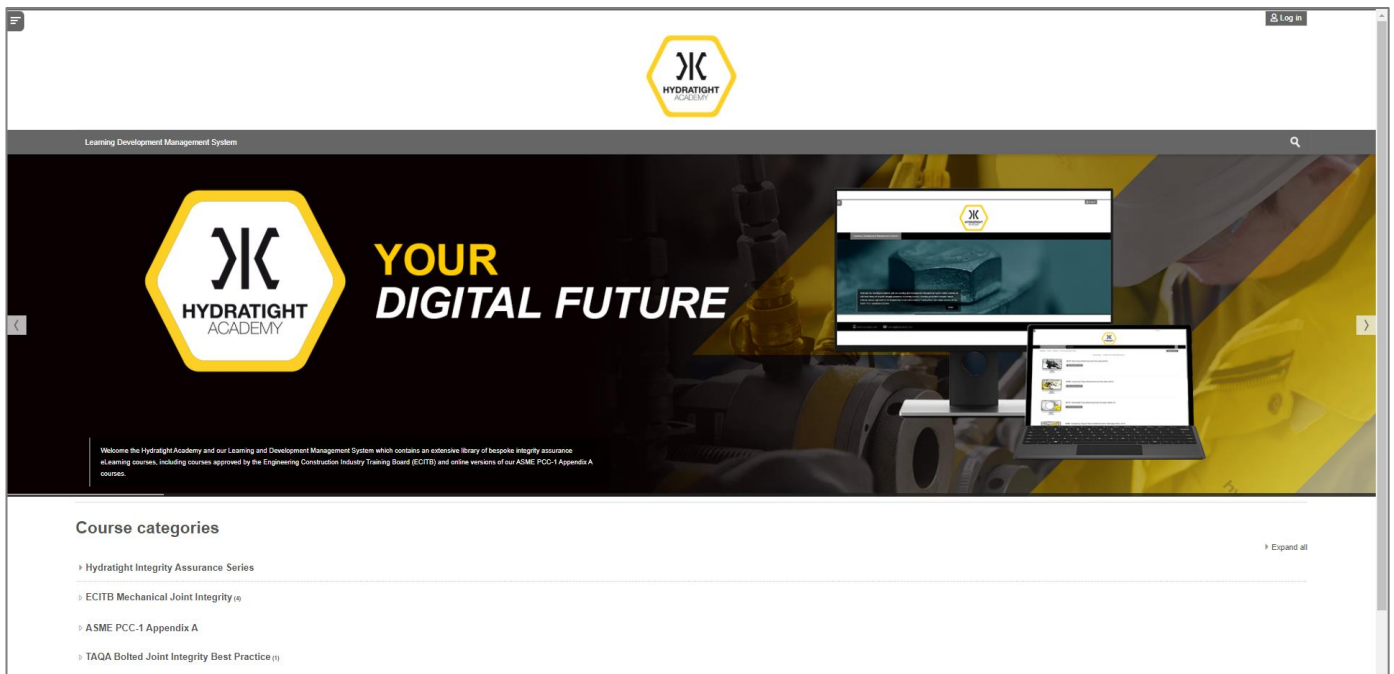
The Hydratight Academy eLearning platform provides a suite of online training courses that are designed to deliver health, safety, quality, and technical theory instruction to refresh knowledge in each subject area or facilitate pre-learning prior to attendance of practical hands-on training.

Learner progress is evaluated at regular intervals throughout each course and a Certificate of eLearning is issued upon successful completion of the end of course assessment.

The Hydratight Academy eLearning platform provides learners with:

- Online portal and accreditation options
- Comprehensive modules
- 24/7 access
- Ability to learn from the convenience of your place of work
- Navigation at your own pace
- Online payment options via the Hydratight [Academy Portal](#)

A full course library with descriptions can be found within the “Course Categories” section of the [LDMS](#) landing page:



Additional courses will be added on a regular basis and bespoke course options are available.

To gain access to our online portal please send your enquiry to eLearning@hydratight.com or visit the Hydratight [Academy Portal](#)



Hydratight Integrity Assurance Series - eLearning Courses

Course Title & Description	Duration	Information
<p>Joint Integrity Level 0 - Technical Foundations</p> <p><i>Introduction to the basic engineering concepts behind controlled bolt tightening including load, stress, strain extension and material failure mechanisms.</i></p>	1h 45m	
<p>Joint Integrity Level 1 - Hand Torque Techniques*</p> <p><i>Health, safety, quality, and technical knowledge learning objectives relevant to the disassembly, inspection, assembly and tightening of flange and clamp connections using hand torque equipment.</i></p>	2h 45m	
<p>Joint Integrity Level 2 - Hydraulic Torque Techniques*</p> <p><i>Health, safety, quality, and technical knowledge learning objectives relevant to the disassembly, inspection, assembly and tightening of flange and clamp connections using hydraulic torque equipment.</i></p>	2h 45m	
<p>Joint Integrity Level 3 - Bolt Tensioning Techniques*</p> <p><i>Health, safety, quality, and technical knowledge learning objectives relevant to the disassembly, inspection, assembly and tightening of flange assemblies using bolt tensioning equipment.</i></p>	2h 40m	
<p>Joint Integrity Level 1-2 - Hand & Hydraulic Torque Techniques*</p> <p><i>Health, safety, quality, and technical knowledge learning objectives relevant to the disassembly, inspection, assembly and tightening of flange and clamp connections using hand and hydraulic torque equipment.</i></p>	3h 5m	
<p>Joint Integrity Level 1-3 -Torque Tightening & Bolt Tensioning Techniques*</p> <p><i>Health, safety, quality, and technical knowledge learning objectives relevant to the disassembly, inspection, assembly and tightening of flange and clamp connections using hand and hydraulic torque equipment, and flange assemblies using bolt tensioning equipment.</i></p>	3h 30m	
<p>Joint Integrity Level 4 - Single Stud Replacement (MorSafe)*</p> <p><i>Health, safety, quality, and technical knowledge learning objectives relevant to the installation and hand torque tightening of "MorSafe" Hot Bolt Clamps.</i></p>	1h 45m	
<p>Joint Integrity Level 5 - Process Engineering Drawings</p> <p><i>Interpretation and understanding of, piping & instrument diagrams, isometric drawings, process flow diagrams & general arrangement drawings.</i></p>	1h 45m	
<p>Joint Integrity Level 6 - Integrity Quality Assurance</p> <p><i>Joint tagging procedures, inspection criteria, gasket failure modes, identify sealing face defects & inspection documentation.</i></p>	1h 45m	
<p>Joint Integrity Level 7 - Informate Calculation Software</p> <p><i>Operation of the Informate bolted joint calculation software package including, logging in, menu navigation, performing calculations, use of the joint matrix and toolbox, updating the software settings and accessing the help file.</i></p>	1h 45m	
<p>Joint Integrity Level 8 - iDMS Joint Integrity Software</p> <p><i>Building an iDMS database, how to use it to manage the execution of scopes of work onsite and how to keep the system up to date with any changes to the asset it represents.</i></p>	1h 45m	

***Blended learning course option** - Individuals who are required to carry out bolted joint integrity tasks in the workplace can attend hands-on practical supplemental training within 12 months completion of this course.



ECITB Mechanical Joint Integrity - eLearning Courses

Course Title & Description	Duration	Information
ECITB MJIE - Hand Torque Bolted Connection Techniques <i>Health, safety, quality, and knowledge elements relevant to the disassembly, inspection, assembly, and hand torque tightening of flange/clamp connections.</i>	2h 45m	
ECITB MJIE - Hydraulically Tension Bolted Connection Techniques <i>Health, safety, quality, and knowledge elements relevant to the disassembly, inspection, assembly, and hydraulic tensioning of flanged connections.</i>	2h 45m	
ECITB MJIE - Hydraulically Torque Bolted Connection Techniques Module <i>Health, safety, quality, and knowledge elements relevant to the disassembly, inspection, assembly, and hydraulic torque tightening of flange/clamp connections.</i>	2h 45m	
ECITB MJIE - Hydraulically Torque Bolted Connection Techniques <i>Health, safety, quality, and knowledge elements relevant to the disassembly, inspection, assembly, and hand/hydraulic torque tightening of flange/clamp connections.</i>	3h	
ECITB MJIE - Hydraulically Torque and Tension Bolted Connection Techniques <i>Health, safety, quality, and knowledge elements relevant to the disassembly, inspection, assembly, hand/hydraulic torque tightening of flange/clamp connections, hydraulic tensioning of flanged connections.</i>	3h 30m	

ECITB approved MJIE eLearning courses can be completed as a refresher training option up to 4 weeks before attendance of TMJI technical testing or as Module 1 of a blended learning program.

ASME PCC-1-2022 Appendix A - eLearning Courses

Course Title & Description	Duration	Information
Bolting Assembler Training <i>The course will deliver a thorough technical understanding of bolted flange joint disassembly, alignment, assembly, selection of target bolt loads, appropriate tooling, and tightening techniques relevant to the tightening of piping joints using hand torque tightening equipment.</i>	3h 15m	
Powered Equipment Endorsement Training <i>The course will deliver a thorough technical and practical understanding of bolted flange joint disassembly, assembly and tightening techniques using hydraulic torque and bolt tensioning equipment.</i>	1h 30m	
Heat Exchanger Endorsement Training <i>The course will deliver a thorough technical understanding of heat exchanger joint disassembly, assembly and tightening techniques using hydraulic torque and bolt tensioning equipment.</i>	1h	
Special Joint Endorsement Training <i>The course will deliver a thorough technical understanding of clamp connector and compact flange disassembly, assembly and tightening techniques using hand and hydraulic torque equipment.</i>	1h 30m	

Hydratight certified ASME PCC-1 Appendix A online training courses can be completed as refresher training prior to attendance of examination or as Module 1 a blended learning program.



Terms & Conditions

- All LDMS users will require a valid email address for enrolment purposes and the additional registration details below:
 - First name
 - Last name
 - Email address (shared inboxes will not be permitted for enrolment)
 - Employing company
 - Country of employment
 - Course(s) requiring enrolment
- Operating system requirements.
 - Computer or device using Microsoft Windows or MAC OS.
 - Stable internet connection and web browser access
 - Headphones or speakers to enable audio functionality
 - Tablet or smartphone access is not recommended
- eLearning course access will be open for a period of 60 days from the date of enrolment.
- Hydratight eLearning courses are valid for 12 months where individuals require blended hands-on practical training.
- ECITB MJJ eLearning certification will be issued separately from the ECITB Membership Services Portal (MSP).
- Pre-requisites upon completion of ECITB MJJ eLearning include a 4-week waiting period must be observed before acceptance on the relevant TMJJ technical test(s) and blended learning practical training must be attended within 4 weeks of eLearning course completion.
- ASME PCC-1 Appendix A eLearning courses are Hydratight certified only. These courses are provided for individuals who wish to complete refresher training prior to attendance of examination or attendance of a blended learning practical course.
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