



COURSE OVERVIEW FE0700
API 570: Piping Inspector
(API Exam Preparation Training)

Course Title

API 570: Piping Inspector (API Exam Preparation Training)

Course Date/Venue

September 28-October 02, 2026/Congress 2 Meeting Room, VOCO Dubai, an IHG Hotel, Sheikh Zayed Road, Dubai, UAE

Exam Window & Venue:

January 29-February 19, 2027/Abu Dhabi, Dubai, Al-Khobar, Jeddah, Kuwait, Amman, Beirut, Cairo, Manama, Muscat and Istanbul. Participant has the option to attend at any of the above cities



Exam Registration Closing Date:

November 19, 2026

Course Duration/Credits

Five days (40 hours)/4.0 CEUs/40

Course Reference

FE0700



Course Description



This practical and highly-interactive course includes real-life case studies where participants will be engaged in a series of interactive small groups and class workshops.



The piping system is one of the major assets of any process facility. Maintaining the integrity of the piping system is very critical for the safety and efficiency of the facility. Piping inspection is the first line of defense for maintaining the facility integrity and minimizing the maintenance cost.



API 570 Piping Inspection Code covers inspection, rating, repair, and alteration procedures for piping systems and their associated pressure relieving devices that have been placed in service. This inspection Code applies to all hydrocarbon and chemical process piping systems. The code specifies the in-service inspection and condition-monitoring program as well as re pair guidance that is needed to determine and maintain the on-going integrity of piping systems.



This course is designed to provide delegates with a comprehensive overview of the latest API 570 certification program. It will prepare the inspectors to pass the API 570 examination in order for them to be certified as API 570 Inspectors. Course participants will receive in-depth instruction on the applicable codes and standards (API and ASME). They will discuss case studies, and solve homework & quizzes and gain the required knowledge for this high-level certification.

The next API 570 exam and have enough knowledge and skills to pass such exam in order to get the API 570 certification; the inspection, repair, alteration and rerating of in-service piping systems; the API 570 body of knowledge, scope, references, definitions, owner and user inspection organization; the inspection and testing practices, frequency and extent of inspection, inspection data evaluation, analysis and recording, repairs, alteration and rerating of piping systems as well as inspection of buried piping.

The scope, piping components, reasons for inspection, inspecting for deterioration in piping, frequency and time of inspection, and employ safety precautions and preparatory work as well as inspection tools, inspection procedures, determination of retirement thickness and records; the various design conditions and criteria, pressure design of piping components, fluid service requirements for piping components, fluid service requirements for piping joints, piping flexibility, materials, fabrication, assembly and erection, inspection, examination and testing as well as demonstrate nondestructive test methods; the welding discontinuities and discuss ASME section IX WPS and PQR.

Quizzes are given at the end of each section; homework is handed out at the end of each class day, which consists of 30 questions per day and is reviewed at the beginning of the following day, and a "practice" exam is administered at the end of the course.

Howard Technology is proud of its **90% pass rate** on all our API sponsored courses.

Course Objectives/Outcomes & Benefits for the Participants

Upon the successful completion of this course, each participant will be able to:-

- Prepare for the next API 570 exam and have enough knowledge and skills to pass such exam in order to get the API 570 certification
- Perform the inspection, repair, alteration and rerating of in-service piping systems
- Review API 570 body of knowledge, scope, references, definitions, owner and user inspection organization
- Discuss inspection and testing practices, frequency and extent of inspection, inspection data evaluation, analysis and recording, repairs, alteration and rerating of piping systems as well as inspection of buried piping
- Identify the scope, piping components, reasons for inspection, inspecting for deterioration in piping, frequency and time of inspection, and employ safety precautions and preparatory work as well as inspection tools, inspection procedures, determination of retirement thickness and records
- Enumerate the various design conditions and criteria, pressure design of piping components, fluid service requirements for piping components, fluid service requirements for piping joints, piping flexibility, materials, fabrication, assembly and erection, inspection, examination and testing as well as demonstrate nondestructive test methods
- Carryout welding discontinuities and discuss ASME section IX WPS and PQR



Exclusive Smart Training Kit - H-STK®



Participants of this course will receive the exclusive “Haward Smart Training Kit” (**H-STK®**). The **H-STK®** consists of a comprehensive set of technical content which includes **electronic version** of the course materials conveniently saved in a **Tablet PC**.

Who Should Attend

This course prepares participants for the API 570 exam. It is designed for those who are involved in the inspection, repair, alteration and re-rating of in-service piping systems. This mainly includes inspectors and inspection engineers who are seeking API-570 certification. Other engineers, managers, mechanical design draftsmen or technical staff who are dealing with piping systems will definitely benefit from this course.

Exam Eligibility & Structure

Exam Candidates shall have the following minimum pre-requisites:-

Education	Years of Experience	Experience Required
BS or higher in engineering or technology or 3+ years of military service in a technical role (Dishonorable discharge disqualifies credit)	1 year	Supervision or performance of inspection activities as described in API 570
2-year degree or certificate in engineering or technology or 2 years of military service in a technical role (Dishonorable discharge disqualifies credit)	2 years	Design, construction, repair, operation, or inspection of in-service piping systems, of which one year <u>must</u> be in supervision or performance of inspection activities as described in API 570
High school diploma or equivalent	3 years	Design, construction, repair, operation, or inspection of in-service piping systems, of which one year <u>must</u> be in supervision or performance of inspection activities as described in API 570
No formal education	5 or more years	Design, construction, repair, operation, or inspection of in-service piping systems, of which one year <u>must</u> be in supervision or performance of inspection activities as described in API 570



Applicable Codes & Standards

Listed below are the effective editions of the publications required for this exam for the date(s) shown above. Each participant must purchase these documents separately and have them available for use during the examination as their cost is not included in the course fees:-

- **API Standard 570**, *Piping Inspection Code: In-service Inspection, Rating, Repair and Alteration of Piping Systems*, **5th Edition, February 2024**

- **API Recommended Practice 571**, *Damage Mechanisms Affecting Fixed Equipment in the Refining Industry*, **3rd Edition, March 2020**

Section	2	Definitions
Par.	3.3	Amine Stress Corrosion Cracking
	3.8	Atmospheric Corrosion
	3.9	Boiler Water and Stream Condensate Corrosion
	3.14	Caustic Corrosion
	3.15	Caustic Stress Corrosion Cracking
	3.17	Chloride Stress Corrosion Cracking
	3.22	Corrosion Under Insulation
	3.27	Erosion/Erosion – Corrosion
	3.31	Galvanic Corrosion
	3.37	Hydrochloric Acid Corrosion
	3.43	Mechanical Fatigue (Including Vibration-induced Fatigue)
	3.45	Microbiologically Influenced Corrosion B16
	3.57	Soil Corrosion
	3.58	Sour Water Corrosion (Acidic)
	3.61	Sulfidation

- **API Recommended Practice 574**, *Inspection Practices for Piping System Components*, **5th Edition, February 2024, Addendum 1 (March 2025)**
- **API Recommended Practice 576**, *Inspection of Pressure-Relieving Devices*, **5th Edition, September 2024**. Sections 5, 6.1-6.5 and 7
- **API Recommended Practice 577**, *Welding Processes, Inspection and Metallurgy*, **3rd Edition, October 2020**
- **API Recommended Practice 578**, *Material Verification Program (MVP) for New and Existing Assets*, **4th Edition, February 2023**
- **American Society of Mechanical Engineers (ASME)**, *Boiler and Pressure Vessel Code*, **2023 Edition**
 - **Section V**, *Nondestructive Examination*, Articles 1, 2, 6, 7, 9, 10, and 23 (Section SE-797 only)
 - **Section IX**, *Qualification Standard for Welding, Brazing and Fusing Procedures; Welders; Brazers; and Welding, Brazing and Fusing Operators*, (Welding only)
- **American Society of Mechanical Engineers (ASME)**
 - **B16.5**, *Pipe Flanges and Flanged Fittings: NPS ½ Through NPS 24 Metric/Inch Standard*, **2020 Edition (Issued January 2021)**
 - **B31.3**, *Process Piping*, **2024 Edition (Issued December 2024)**

PCC-2, Repair of Pressure Equipment and Piping, 2022

ATTENTION: The examination will cover each referenced Article and its Appendices



Article 101: Introduction

Article 201: Butt-Welded Insert Plates in Pressure Components

Article 206: Full Encirclement Steel Reinforcing Sleeves for Piping

Article 209: Alternatives to Postweld Heat Treatment

Article 210: In-Service Welding on to Carbon Steel Pressure Components or Pipelines

Article 211: Weld Buildup, Weld Overlay, and Clad Restoration

Article 212: Fillet Welded Patches

Article 304: Flaw Excavation and Weld Repair

Article 305: Flange Repair and Conversion

Article 306: Mechanical Clamp Repair

Article 501: Pressure and Tightness of Piping and Equipment

Article 502: Nondestructive Examination in Lieu of Pressure Testing for Repairs and Alternations

API Exam Format

All API exams are organized online in one of the Prometric Examination centers.

The only document required is the students Photo ID. No other documents, books, standards, codes or publications whatsoever are allowed during the exam.

All applicable codes and standards will be available online in the exam station.

Training Methodology

All our Courses are including **Hands-on Practical Sessions** using equipment, State-of-the-Art Simulators, Drawings, Case Studies, Videos and Exercises. The courses include the following training methodologies as a percentage of the total tuition hours:-

30% Lectures

20% Practical Workshops & Work Presentations

30% Hands-on Practical Exercises & Case Studies

20% Simulators (Hardware & Software) & Videos

In an unlikely event, the course instructor may modify the above training methodology before or during the course for technical reasons.

Learning Design & Customization

This course can be customized to the exact requirements of clients. Haward Technology is so proud of our huge capabilities in tailoring our courses to the training needs of our valued clients.

Training Fee

US\$ 5,500 per Delegate + **VAT**. This rate includes H-STK® (Haward Smart Training Kit), buffet lunch, coffee/tea on arrival, morning & afternoon of each day.

Exam Fees

US\$ 1,500 per Delegate + **VAT**.

Accommodation

Accommodation is not included in the course fees. However, any accommodation required can be arranged at the time of booking.





API Certificate(s)

- (1) API-570 certificate will be issued to participants who have successfully passed the API-570 examination.



- (2) Official Transcript of Records will be provided to the successful delegates with the equivalent number of ANSI/IACET accredited Continuing Education Units (CEUs) earned during the course.





Certificate Accreditations

Haward's certificates are accredited by the following international accreditation organizations:-

-  British Accreditation Council (BAC)

Haward Technology is accredited by the **British Accreditation Council** for **Independent Further and Higher Education** as an **International Centre**. Haward's certificates are internationally recognized and accredited by the British Accreditation Council (BAC). BAC is the British accrediting body responsible for setting standards within independent further and higher education sector in the UK and overseas. As a BAC-accredited international centre, Haward Technology meets all of the international higher education criteria and standards set by BAC.

-  The International Accreditors for Continuing Education and Training (IACET - USA)

Haward Technology is an Authorized Training Provider by the International Accreditors for Continuing Education and Training (IACET), 2201 Cooperative Way, Suite 600, Herndon, VA 20171, USA. In obtaining this authority, Haward Technology has demonstrated that it complies with the **ANSI/IACET 2018-1 Standard** which is widely recognized as the standard of good practice internationally. As a result of our Authorized Provider membership status, Haward Technology is authorized to offer IACET CEUs for its programs that qualify under the **ANSI/IACET 2018-1 Standard**.

Haward Technology's courses meet the professional certification and continuing education requirements for participants seeking **Continuing Education Units** (CEUs) in accordance with the rules & regulations of the International Accreditors for Continuing Education & Training (IACET). IACET is an international authority that evaluates programs according to strict, research-based criteria and guidelines. The CEU is an internationally accepted uniform unit of measurement in qualified courses of continuing education.

Haward Technology Middle East will award **4.0 CEUs** (Continuing Education Units) or **40 PDHs** (Professional Development Hours) for participants who completed the total tuition hours of this program. One CEU is equivalent to ten Professional Development Hours (PDHs) or ten contact hours of the participation in and completion of Haward Technology programs. A permanent record of a participant's involvement and awarding of CEU will be maintained by Haward Technology. Haward Technology will provide a copy of the participant's CEU and PDH Transcript of Records upon request.



Course Instructor(s)

This course will be conducted by the following instructor(s). However, we have the right to change the course instructor(s) prior to the course date and inform participants accordingly:



(1) **Ms. Maria Melkadze**, MSc, BSc, is a **Senior Inspection Engineer** with Extensive Experience within the **Oil & Gas, Petrochemical and Refinery industries**. Her wide expertise includes **Pressure Vessel Inspection, ASME VIII Pressure Vessel Design, Fabrication & Testing, Pressure Vessel & Piping Systems, Boiler & Pressure Vessel Materials, Piping Inspection, Plant Utility Piping System, Piping System Repair & Maintenance, Piping System & Pipeline Maintenance, Process Piping Design & Mechanical Integrity, Risk-Based-Inspection (RBI) & Fitness-for-Service (FFS), Tank Inspection, Repair, Alteration & Reconstruction, Tank Farm & Tank Terminal Safety & Integrity Management, Aboveground Storage Tank inspection, Pressure Systems Integrity, Risk Management & Production Efficiency, Defect Elimination, Engineering Processes & Work Flows Standardization** and inspection management tools such as SAP, Maximo, ACET and IDMS.

During her career life, Ms. Melkadze has gained his practical and field experience through her various significant positions and dedication as the **Pressure Systems Integrity Engineer, Pressure Systems Integrity Engineer Challenger and Inspector of British Petroleum**.

Ms. Melkadze has a **Master's degree in Industrial Engineering and Technology in Specialization of Refrigerating Machinery & Technology** and a **Bachelor's degree in Industrial Engineering and Technology**. Further, she is a **Certified API 510 Pressure Vessel Inspector, Certified API 570 Piping Inspector, Certified API 653 Aboveground Storage Tank Inspector, a Certified Project Management Professional (PMI-PMP), a Professional Scrum Product Owner I (PSPO I), a Professional Scrum Master I (PSM I), a Certified Professional Agile Coach, a Certified Professional Agile Facilitator and a Certified Instructor/Trainer**. She is also a member of the **Institution of Mechanical Engineers** and a has delivered numerous trainings, courses, seminars and workshops internationally.



AND,



(2) **Mr. Hesham Moharram**, is a **Senior Inspection Engineer** with over **30 years** of industrial experience in the **Oil & Gas, Refineries** and **Petrochemical** industries. His expertise includes **Facility Integrity, Technical Integrity, Integrated Safety Management Plan, Inspection, Repair, Maintenance, Alteration and Reconstruction of Aboveground Storage Tanks, Pressure Vessels, Piping Inspection, Risk-Based**

Inspection, Fitness-for-Service (FFS), Asset Integrity Management, Plant Inspection & Corrosion Engineering, Pipeline Integrity Assessment, Integrity Management, Pipeline Rehabilitation & Repair, Pipeline Design & Maintenance, Corrosion Monitoring & Cathodic Protection, Pressure & Leak Testing, Metallurgy, Corrosion & Prevention of Failures, Material Selection & Properties, Physical Metallurgy of Steel, Welding Technology, Fabrication & Inspection, Conventional & Advanced Non-destructive Testing (NDT), Process Safety Hazard Analyses (PHA), Risk Assessment, Pigging & Pipe Support and Acoustic Emission. Further, he is also well-versed in Quality Assurance & Quality Control, **HAZOP**, Permit-to-Work, Hazard Identification, Safety Meeting, Accident Investigation, Emergency Response, Task Risk Assessment, Root Cause & Failure Analysis, Fire Fighting, First Aid Basic, CPR, H₂S Awareness, Distillation Units, Preventive Maintenance, FEED, Contract Management, Stress Management, Coaching & Mentoring Skills, Interpersonal Skills and Communication Skills. He is currently the **Senior Inspection Engineer** wherein he is responsible in various inspection works like fitness-for-service, remaining life assessments, risk based inspection, intelligent pigging, problematic pipe supports, non-destructive testing and acoustic emission.

Throughout his career life, Mr. Hesham has provided significant contributions to the companies he has worked with, having filled key positions such as being the **Senior Inspection Engineer, Inspection Engineer, Production Engineer, API Instructor, QA/QC and Supervisor** for international companies such as Abu Dhabi Company for Onshore Oil Operations (**ADCO**), Suez Oil Company (**SUCO**), Cairo Oil Refining Company (**CORC**) Refinery, DURA Refinery, State Company for Oil Projects (**SCOP-IRAQ**) and **Iron & Steel**.

Mr. Moharram has a **Bachelor's** degree in **Metallurgical Engineering**, from the Suez Canal University. Further, he is a **Certified Instructor/Trainer**, a **Certified Pressure Vessel Inspector (API-510)**, **Certified Piping Inspector (API-570)**, **Certified Aboveground Storage Tanks Inspector (API-653)**, **Certified Risk Based Inspector (API-580)**, an **ASNT Certified Level II** in **UT, RT, MT, PT** and **Eddy Current Testing**.



Course Program

The following program is planned for this course. However, the course instructor(s) may modify this program before or during the course for technical reasons with no prior notice to participants. Nevertheless, the course objectives will always be met:

Day 1: **Monday, 28th of September 2026**

0730 – 0800	Registration & Coffee
0800 – 0815	Welcome & Introduction
0815 – 0830	PRE-TEST
0830 – 0900	Introduction & Overview of Course Outline
0900 – 0930	Review of API 570 Body of Knowledge
0930 – 1000	API 570 - Sections 1 – Scope
1000 – 1015	Break
1015 – 1045	API 570 - Sections 2 - References
1045 – 1230	API 570 - Sections 3 - Definitions
1230 – 1330	Lunch
1330 – 1430	API 570 - Sections 4 - Owner/User Inspection Organization
1430 – 1500	API 570 - Sections 5 - Inspection & Testing Practices
1500 – 1515	Break
1515 – 1545	API 570 - Sections 6 - Frequency & Extent of Inspection
1545 – 1645	API 570 - Sections 7 - Inspection Data Evaluation, Analysis & Recording
1645 – 1700	API 570/Distribute Homework & Recap
1700	End of Day One

Day 2: **Tuesday, 29th of September 2026**

0730 – 0830	Review of Day 1
0830 – 0930	API 570 -Sections 8 -Repairs, Alterations & Rerating of Piping Systems
0930 – 0945	Break
0945 – 1045	API 570 - Sections 9 - Inspection of Buried Piping
1045 – 1130	API 570 - Appendix A - Inspection Certification API 570 - Appendix C - Examples of Repairs API 570 - Appendix D - External Inspection Checklist for Process Piping
1130 – 1200	API RP 574 - Section 1 - Scope
1200 – 1230	API RP 574 - Section 3 - Definitions
1230 – 1330	Lunch
1330 – 1400	API RP 574 - Section 4 - Piping Components
1400 – 1410	API RP 574 - Section 5 - Reasons for Inspection
1410 – 1420	API RP 574 - Section 6 - Inspecting for Deterioration in Piping
1420 – 1430	API RP 574 - Section 7 - Frequency & Time of Inspection
1430 – 1440	API RP 574 - Section 8 - Safety Precautions & Preparatory Work
1440 – 1450	API RP 574 - Section 9 - Inspection Tools
1450 – 1515	API RP 574 - Section 10 - Inspection Procedures
1515 – 1530	Break
1530 – 1540	API RP 574 - Section 11 - Determination of Retirement Thickness
1540 – 1550	API RP 574 - Section 12 - Records
1550 – 1600	API RP 577 Terms & Definitions
1600 – 1615	API RP 577 Welding Processes
1615 – 1625	API RP 577 Weld Symbols
1625 – 1635	API RP 577 Electrode Identification



1635 – 1650	<i>Administer Quiz 1</i>
1650 – 1700	<i>Review Quiz 1 & Recap</i>
1700	<i>End of Day Two</i>

Day 3: Wednesday, 30th of September 2026

0730 – 0830	<i>Review of Day 2</i>
0830 – 0845	<i>ASME B31.3 - Chapter 1 - Scope & Definitions</i>
0845 – 0910	<i>ASME B31.3 - Chapter 2 (Part 1) - Design Conditions & Criteria</i>
0910 – 0940	<i>ASME B31.3 - Chapter 2 (Part 2) - Pressure Design of Piping Components</i>
0940 – 1000	<i>ASME B31.3 - Chapter 2 (Part 3) - Fluid Service Requirements for Piping Components</i>
1000 – 1015	<i>Break</i>
1015 – 1040	<i>ASME B31.3 - Chapter 2 (Part 4) - Fluid Service Requirements for Piping Joints</i>
1040 – 1100	<i>ASME B31.3 - Chapter 2 (Part 5) - Piping Flexibility</i>
1100 – 1130	<i>ASME B31.3 - Chapter 3 - Materials</i>
1130 – 1230	<i>ASME B31.3 - Chapter 5 - Fabrication, Assembly & Erection</i>
1230 – 1330	<i>Lunch</i>
1330 – 1430	<i>ASME B31.3 - Chapter 6 - Inspection, Examination & Testing</i>
1430 – 1445	<i>Break</i>
1445 – 1630	<i>ASME Section V - Nondestructive Test Methods</i>
1630 – 1645	<i>ASME Section V - Nondestructive Test Methods (cont'd)</i>
1645 – 1655	<i>ASME Section V - Nondestructive Test Methods (cont'd)</i>
1655 – 1700	<i>Review & Recap Discussion</i>
1700	<i>End of Day Three</i>

Day 4: Thursday, 01st of October 2026

0730 – 0830	<i>Review of Day 3</i>
0830 – 0900	<i>API RP 578 Material Verification Program</i>
0900 – 0930	<i>API 571 Damage Mechanisms</i>
0930 – 0945	<i>Break</i>
0945 – 1015	<i>ASME Section IX WPS</i>
1015 – 1045	<i>ASME Section IX PQR</i>
1045 – 1115	<i>ASME Section IX - Welder Certification</i>
1115 – 1200	<i>ASME B16.5 Flanges & Fittings</i>
1200 – 1230	<i>API 576 Inspection of Pressure Relieving Devices</i>
1230 – 1330	<i>Lunch</i>
1330 – 1445	<i>ASME PCC-2: Repair of Pressure Equipment & Piping</i> Scope, Organization & Intent • Applicability & Limitations of Repair Methods Covered by ASME PCC-2 • Choosing Correct Repair Technique for Given Defects • Cost-effective Repairs
1445 – 1500	<i>Break</i>
1500 – 1620	<i>ASME PCC-2: Repair of Pressure Equipment & Piping (cont'd)</i> Detailed Repair Methods & Inspection Techniques • Inspection of Pressure Vessels, Rating, Repair & Alteration • Remaining Life Calculation of Pressure Vessels
1620 – 1650	<i>Administer Quiz 2</i>
1650 – 1700	<i>Review Quiz 2 & Recap</i>
1700	<i>End of Day Four</i>



Day 5: Friday, 02nd of October 2026

0730 – 0830	Review of Day 4
0830 – 0930	ASME PCC-2: Welded Repairs Butt-Welded Insert Plates in Pressure Components • Weld Overlay to Repair Internal Thinning • Welded Leak Box Repair • Full Encirclement Steel Reinforcing Sleeves for Piping
0930 – 0945	Break
0945 – 1130	ASME PCC-2: Welded Repairs (cont'd) Fillet Welded Patches • Alternatives to Post-Weld Heat Treatment • In-Service Welding onto Carbon Steel Pressure Components or Pipelines • Weld Build-up, Weld Overlay & Clad Restoration
1130 – 1230	ASME PCC-2: Mechanical Repairs (Non-Welding Repairs) Flange Repair • Mechanical Clamp Repair • Inspection & Repair of Shell & Tube Heat Exchangers • Examination & Testing
1230 – 1330	Lunch
1330 – 1445	ASME PCC-2: Mechanical Repairs (Non-Welding Repairs) (cont'd) Pressure & Tightness Testing of Piping & Equipment • Pneumatic Testing- Do's & Don'ts • Non-destructive Examination in Lieu of Pressure Testing for Repairs & Alterations • Relevance of ASME PCC-2 Standard with API 510 & API 570 Codes • Documentation & Records of Repairs
1445 – 1500	Break
1500 – 1615	General Course Review of Topics
1615 – 1630	Course Conclusion
1630 – 1645	POST-TEST
1645 – 1700	Presentation of Course Certificates
1700	End of Course

MOCK Exam

Upon the completion of the course, participants have to sit for a MOCK Examination similar to the exam of the Certification Body through Haward's Portal. Each Participant will be given a username and password to log in Haward's Portal for the Mock exam during the 60 days following the course completion. Each participant has only one trial for the MOCK exam within this 60-day examination window. Hence, you have to prepare yourself very well before starting your MOCK exam as this exam is a simulation to the one of the Certification Body.



Practical Sessions

This practical and highly-interactive course includes real-life case studies and exercises:-



Course Coordinator

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