

COURSE OVERVIEW FE0710 API 653: Aboveground Storage Tank Inspector

(API Exam Preparation Training)

CEUS

40 PDHs)

Course Title

API 653: Aboveground Storage Tank Inspector (API Exam Preparation Training)

Course Reference

FE0710

Course Duration/Credits

Five days (40 hours)/4.0 CEUs/40 PDHs

Course Date/Venue



Sessions	Date	Venue	Exam Window	Exam Closing Date
1	December 08- 12, 2024	Club B Meeting Room, Ramada Plaza by Wyndham Istanbul City Center, Istanbul, Turkey	ТВА	ТВА
Exam Venue	Abu Dhabi, Dubai, Al Khobar, Jeddah, Kuwait, Amman, Beirut, Cairo, Manama and Muscat. Participant has the option to attend at any of the above cities.			

Course Description



This practical and highly-interactive course includes practical sessions and exercises where participants carryout welding inspection. Theory learnt in the class will be applied using our state-of-the-art simulators.

This course is designed to provide participants with a comprehensive overview of the latest API 653 certification program. It will prepare the inspectors to pass the API 653 examination in order for them to be certified as API 653 Inspectors. The course covers the inspection, repair, alteration and reconstruction of steel aboveground storage tanks used in the petrochemical industry; the API 653 body of knowledge, scope, reference publications, definitions, suitability for service and brittle fracture considerations; the several aspects involved in the inspection, materials, design considerations for reconstructed tanks, tank repair and alteration, dismantling and reconstruction, welding, examination and testing, marking and recordkeeping; and the scope, materials, design, fabrication, erection, methods inspecting weldina procedure. of ioints. welder qualifications and marking.



FE0710 - Page 1 of 13





The course will also discuss the selected nondestructive examination (NDE) methods, types of storage tanks, reasons for inspection, causes of deterioration, frequency of inspection and methods of inspection and inspection scheduling; the corrosion of aboveground steel storage tanks, determination of need for cathodic protection, methods of cathodic protection for corrosion control, design of cathodic protection systems, interference currents and the operation and maintenance of cathodic protection systems; the various corrosion mechanisms, the need for tank bottom lining, tank bottomlining selection, surface preparation, inspection and repair of tank bottom linings and safety; the general damage mechanisms and refining industry damage mechanisms; and the welding inspection, welding processes, refinery and petrochemical plant welding issues, nondestructive test methods, WPS and PQR requirements.

This comprehensive 40-hour course consists of five 8-hour teaching days. It is designed to accomplish a two-fold training agenda: (1) To train those individuals who are interested in obtaining the API 653 Tank Inspection Certification; and (2) To train those who require a working knowledge of the intricacies encountered in the working environment.

Quizzes are given at the end of each section; homework is handed out at the end of each class day, which consists of 25 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. Haward Technology is proud of its **90% pass rate** on all our API sponsored courses.

Course Objectives

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

- Get prepared for the next API 653 exam and have enough knowledge and skills to pass such exam in order to get the API 653 certification
- Perform the inspection, repair, alteration and reconstruction of steel aboveground storage tanks used in the petrochemical industry
- Review API 653 body of knowledge, scope, reference publications, definitions, suitability for service and brittle fracture considerations
- Discuss the several aspects involved in the inspection, materials, design considerations for reconstructed tanks, tank repair and alteration, dismantling and reconstruction, welding, examination and testing, marking and recordkeeping
- Identify the scope and materials, and employ the design, fabrication, erection, and methods of inspecting joints, welding procedure as well as welder qualifications and marking
- Explain selected nondestructive examination (NDE) methods, types of storage tanks, reasons for inspection, causes of deterioration, frequency of inspection and methods of inspection and inspection scheduling
- Distinguish corrosion of aboveground steel storage tanks, determination of need for cathodic protection, methods of cathodic protection for corrosion control, design of cathodic protection systems, interference currents and carryout operation and maintenance of cathodic protection systems
- Enumerate the various corrosion mechanisms, determination of the need for tank bottom lining, tank bottom lining selection, and surface preparation as well as demonstrate inspection and repair of tank bottom linings and safety
- Illustrate and differentiate general damage mechanisms and refining industry damage mechanisms
- Carryout welding inspection, welding processes, refinery and petrochemical plant welding issues, nondestructive test methods, WPS and PQR requirements



FE0710 - Page 2 of 13





Who Should Attend

This course prepares participants for the API 653 exam. It is designed for those who are involved in the inspection, repair, alteration and reconstruction of tank. This mainly includes inspectors and inspection engineers who are seeking API-653 certification. Other engineers, managers or technical staffs who are dealing with tanks and tank farms 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		Supervision or performance of inspection
3+ years of military service in a technical role	1 year	activities as described in API 653
(Dishonorable discharge disqualifies credit)		
2-year degree or certificate in engineering or technology		
or		Design, construction, repair, operation, or inspection of aboveground storage tanks, of
2 years of military service in a technical role	2 years	which one year <u>must</u> be in supervision or performance of inspection activities as described in API 653
(Dishonorable discharge disqualifies credit)		
High school diploma or	0	Design, construction, repair, operation, or inspection of aboveground storage tanks, of which one year must be in supervision or
equivalent	3 years	performance of inspection activities as described in API 653
No formal education	5 or more years	Design, construction, repair, operation, or inspection of aboveground storage tanks, of which one year <u>must</u> be in supervision or performance of inspection activities as described in API 653

Required Codes and Standards

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

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



FE0710 - Page 3 of 13





ATTENTION: Only the following sections/mechanisms from RP 571 are included on the exam:

Sectio	on 2	Terms and Definitions
Par.	3.8	_ Atmospheric Corrosion

3.17

- _ Atmospheric Corrosion 3.8
- Brittle Fracture 3.11
- _ Caustic Corrosion 3.14
- Caustic Stress Corrosion Cracking (Caustic Embrittlement) 3.15
 - Chloride Stress Corrosion Cracking
- 3.22 - Corrosion Under Insulation (CUI)
- _ Mechanical Fatigue (Including Vibration-induced Fatigue) 3.43
- Microbiologically Influenced Corrosion (MIC) 3.45
- Soil Corrosion 3.57
- Sour Water Corrosion (Acidic) 3.58
- Sulfuric Acid Corrosion 3.62
- API Recommended Practice 575, Inspection Practices for Atmospheric and Low-Pressure Storage Tanks, 4th Edition, July 2020
- API Recommended Practice 576, Inspection of Pressure-Relieving Devices, 4th Edition, April 2017 (Sections 4.3.2 and 6.6 only)
- API Recommended Practice 577 Welding Processes, Inspection and Metallurgy, 3rd Edition, October 2020
- API Standard 650, Welded Tanks for Oil Storage, 13th Edition, March 2020 with Errata 1 (January 2021)
- API Recommended Practice 651, Cathodic Protection of Aboveground Petroleum Storage Tanks, 4th Edition, September 2014
- API Recommended Practice 652, Lining of Aboveground Petroleum Storage Tank Bottoms, 5th Edition, May 2020
- API Standard 653, Tank Inspection, Repair, Alteration, and Reconstruction, 5th Edition, November 2014, Addendum 1 (April 2018), Addendum 2 (May 2020), Errata 1 (March 2020)
- American Society of Mechanical Engineers (ASME), Boiler and Pressure Vessel Code, 2021 Edition
 - i. ASME Section V, Nondestructive Examination, Articles 1, 2, 6, 7 and 23 (section SE-797 onlv)
 - ii. Section IX, Qualification Standard for Welding, Brazing and Fusing Procedures; Welders; Brazers; and Welding, Brazing and Fusing Operators, (Welding Only)

Note: API and ASME publications are copyrighted material. Photocopies of API and ASME publications are not permitted.



FE0710 - Page 4 of 13





API Certificate(s)

BAC

(1) API-653 certificate will be issued to participants who have successfully passed the API-653 examination.

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verifies that	
SALI	EM GHANEM
HAS MET TH	HE ESTABLISHED AND PUBLISHED REQUIREMENTS FOR API CERTIFICATION AS AN
API 653 A	BOVEGROUND STORAGE TANK INSPECTOR
IN ACCORDA	ANCE WITH THE KNOWLEDGE DEFINED IN THE API Recommended Practice 653
CERTIFICATIO	DN NUMBER 112567890
	CERTIFICATION DATE February 20, 2021 CERTIFICATION DATE February 20, 2021 Pebruary 20, 2024
	Director, Individual Cartification Programs
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(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.

Continuing Professional Development (HTME-CPD) Haward Technology Middle East Continuing Professional Development (HTME-CPD) Total Issuance Date: 14 Nov-22 HTME No. Nov 10-14, 2022 ADI Inspector (API Exam Preparation Training) Nov 10-14, 2022 Total No. of CEUIs Eamed as of TOR Issuance Date AD	echnology	1 Transport	ard.org
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Certificate Accreditations

Certificates are accredited by the following international accreditation organizations: -

• 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.

• **BAC**

British Accreditation Council (BAC)

Haward Technology is accredited by the **British Accreditation Council** for **Independent Further and Higher Education** as an **International Centre**. 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.

Training Methodology

All our Courses are including **Hands-on Practical Sessions** using equipment, State-ofthe-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.



FE0710 - Page 6 of 13





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:



Mr. Danny Gul is a Senior Inspection Engineer with extensive years of experience within the Oil & Gas, Petrochemical, Process and Power Industries. His wide expertise lies extensively in the areas of Risk Based Inspection, RBI Methodology, RBI Assessment, Fitness-for-Service (FFS), Tank Inspection & Repair, Tank Calibration & Testing, Welded Tanks for Oil Storage (API 650), Atmospheric & Low Pressure Inspection (API RP 575), Pressure Vessel Inspection & Repair, Inspection & Repair of Erection

Activities, Corrosion & Materials Inspection, Corrosion Prevention, Corrosion Technology & Inspection, Materials & Corrosion Control, Metallurgy & Corrosion Engineering, Material Selection & Properties, Welding Inspection Technology, Welding & Machining, Welding Procedure Specifications & Qualifications, Welding Safety, Fabrication & Site Inspection, Site Erection Quality Control, Welding & Non-Destructive Testing (NDE), Hydro & Pneumatic Testing, Degradation Mechanism & Consequence Analysis, Risk Management & Reduction, Risk Analysis, Risk Determination & Assessment, Equipment Integrity & Reliability, Failure Mode & Effect Analysis (FMEA), Reliability & Asset Management, Piping System, Process Hazard Analysis (PHA), Human Factor Analysis, Hazard & Operability (HAZOP), Layer of Protection Analysis (LOPA), QRA, SIL Evaluation, FTA, ETA and Safety & Environmental Assessment.

During his Career Life, Mr. Gul has gained his practical and field experience through his various significant positions and dedication as the **Chief QA QC**, **Incoming Material & Equipment Inspector**, **Equipment Control & Quality Control Specialist**, **Equipment Integrity Expert**, **Process Safety & Equipment Integrity Technical Expert**, **Acting Equipment Qualification Specialist** and **API 653/580/571 Authorized inspector/Consultant/Traner** for numerous international companies like the Silverteknik, Assystem, American Petroleum Inspector, Alltechmep, TUV Nord and Szutest

Mr. Gul has a Bachelor's degree in Mechanical Engineering from the Istanbul Technical University, Turkey. Further, he is a Certified Instructor/Trainer, a Certified API 653 Aboveground Storage Tank Inspector, a Certified API 580 Risk Based Inspector and a Certified API 571 Corrosion & Materials Inspector. He has further delivered numerous trainings, courses, seminars, conferences & workshops internationally.

Accommodation

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



FE0710 - Page 7 of 13





<u> Training Fee</u>

US\$ 6,000 per Delegate + **VAT**. This rate includes Participants Pack (Folder, Manual, Hand-outs, etc.), buffet lunch, coffee/tea on arrival, morning & afternoon of each day.

Exam Fee

US\$ 1,410 per Delegate + VAT.

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:	Sunday, 08 th of December 2024	
0730 - 0800		
0800 - 0815	Welcome & Introduction	
0815 - 0830	PRE-TEST	
0830 - 0900	Introduction	
0900 - 0930	Students Take Initial Math Quiz	
0930 - 1000	Review Math Quiz Answers	
1000 - 1015	Break	
1015 - 1045	Overview of Course Outline	
1045 – 1230	Review of API 653 Body of Knowledge	
1230 - 1330	Lunch	
1330 – 1445	API 653 - Section 1 – Scope: Introduction, Compliance with this Standard, Jurisdiction, Safe Working Practices API 653 - Section 2 – Referenced Publications API 653 - Section 3 – Definitions	
1445 – 1500	Break	
1500 – 1600	API 653 - Section 4 - Suitability for Service:General, Tank Roof Evaluation, Tank Shell Evaluation, Tank Bottom Evaluation,Tank Foundation Evaluation	
1600 – 1645	API 653 - Section 5 - Brittle Fracture Considerations: General, Basic Considerations, Assessment Procedure	
1645 – 1700	Distribute Homework & Recap	
1700	End of Day One	

Day 2:	Monday, 09 th of December 2024
0730 - 0830	Review of Day 1 & Homework Answers
	API 653 - Section 6 - Inspection
	General, Inspection Frequency Considerations, Inspections from the Outside of the
	Tank, Internal Inspection, Alternative to Internal Inspection to Determine Bottom
	Thickness, Preparatory Work for Internal Inspection, Inspection Checklists,
	Records, Reports, Non-Destructive Testing
0830 - 1000	API 653 - Section 7 - Materials
	General, New Materials, Original Materials for Reconstructed Tanks, Welding
	Consumables
	API 653 - Section 8 - Design Considerations for Reconstructed Tanks
	General, New Weld Joints, Existing Weld Joints, Shell Design, Shell Penetrations,
	Wind Girders and Shell Stability, Roofs, Seismic Design
1000 - 1015	Break
1015 - 1130	API 653 - Section 9 - Tank Repair & Alteration



FE0710 - Page 8 of 13





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Day 3:	<i>Tuesday, 10th of December 2024</i>
0730 – 0800	Review of Day 2 & Homework Answers
0800 - 0945	API 650 - Section 6 - Methods of Inspecting JointsRadiographic Method, Magnetic Particle Examination, Ultrasonic Examination,Liquid Penetrant Examination, Visual ExaminationAPI 650 - Section 7 - Welding Procedure & Welder QualificationsDefinitions, Qualification of WeldersAPI 650 - Section 8 - MarkingNameplates, Division of Responsibility, Certification
0945 – 1000	Break
1000 – 1130	API 650 - Appendices B - S
1130 – 1200	Administer API 650 Section Quiz
1200 - 1230	Slide Show – "Don't Let this Happen to your Tank"
1230 - 1330	Lunch



FE0710 - Page 9 of 13





	Complete Slide Show -"Don't Let this Happen to your Tank"
	API RP 575 - Section 1 - Scope
	API RP 575 - Section 3 - Selected Nondestructive Examination (NDE)
1330 - 1445	Methods
1000 - 1440	Ultrasonic-Thickness Measurement, Magnetic Floor Testing
	API RP 575 - Section 4 - Types of Storage Tanks
	General, Storage Tanks with Linings and/or Cathodic Protection, Storage Tanks
	with Leak Detection Systems, Low-Pressure Storage Tanks
1445 - 1500	Break
	API RP 575 - Section 5 - Reasons for Inspection and Causes of
1500 - 1645	Deterioration
	Reasons for Inspection, Corrosion of Steel Tanks
	API RP 575 - Section 6 - Frequency of Inspection
	API RP 575 - Section 7 - Methods of Inspection and Inspection Scheduling
	External Inspection of In-Service Tanks, Foundation Inspection, Anchor Bolt
	Inspection, Grounding Connection Inspection, Thickness Measurements, Caustic
	Cracking, Tank Bottoms, Inspection Scheduling, Inspection Checklists
	API RP 651 - Section 1 - Scope
	API RP 651 - Section 3 - Definitions
	API RP 651 - Section 4 - Corrosion of Aboveground Steel Storage Tanks
	Introduction, Corrosion Mechanisms
	API RP 651 - Section 5 - Determination of Need for Cathodic Protection
1645 – 1700	Distribute Homework & Recap
1700	End of Day Three

Day 4:	Wednesday, 11 th of December 2024
0730 - 0800	Review of Day 3 & Homework Answers
0800 – 0945	API RP 651 - Section 6 - Methods of Cathodic Protection for Corrosion ControlIntroduction, Galvanic Systems, Impressed Current Systems, Cathodic Protection RectifiersAPI RP 651 - Section 7 - Design of Cathodic Protection Systems Barriers to Cathodic Protection, Tank Bottom Replacement, Impervious Membrane Lining, Effects of Impermeable Membrane Secondary Containment Systems API RP 651 - Section 8 - Criteria for Cathodic Protection API RP 651 - Section 9 - Installation of Cathodic Protection Systems Introduction, Galvanic Anode Systems, Impressed Current Systems API RP 651 - Section 10 - Interference Currents API RP 651 - Section 11 - Operation and Maintenance of Cathodic Protection Systems
0945 – 1000	Break
1000 - 1230	API RP 652 - Section 1 - IntroductionAPI RP 652 - Section 3 - DefinitionsAPI RP 652 - Section 4 - Corrosion MechanismsChemical Corrosion, Concentration Cell Corrosion, Corrosion Caused by Sulfate-Reducing Bacteria, Erosion-Corrosion in Water TreatmentAPI RP 652 - Section 5 - Determination of the Need for Tank Bottom LiningGeneral, Design Considerations and Tank Internals, Tank History, EnvironmentalConsiderations, Flexibility for Service Change
1230 - 1330	Lunch



FE0710 - Page 10 of 13





API RP 652 - Section 6 - Tank Bottomlining Selection
General, Thin-Film Tank Bottom Linings, Thick-Film Tank Bottom Linings
API RP 652 - Section 7 - Surface Preparation
General, Precleaning
API RP 652 - Section 9 - Inspection
API RP 652 - Section 10 - Repair of Tank Bottom Linings
General, Types of Repairs
API RP 652 - Section 11 - Safety
Tank Entry, Manufacturer's Material Safety Data Sheets
Break
API RP 571 - Section 1 - Scope
API RP 571 - Section 4 - General Damage Mechanisms
Brittle Fracture, Mechanical Fatigue, Atmospheric Corrosion, Corrosion Under
Insulation (CUI), Microbiological Induced Corrosion (MIC), Soil Corrosion,
Caustic Corrosion, Chloride Stress Corrosion Cracking (Cl SCC), Caustic Stress
Corrosion Cracking (Caustic Embrittlement)
API RP 571 - Section 5 - Refining Industry Damage Mechanisms
Distribute Homework & Recap
End of Day Three

Day 5:	Thursday, 12 th of December 2024
0730 - 0800	Review of Day 4 & Homework Answers
0800 – 1000	API RP 576 - Section 4.3.2 - Weight-loaded Pressure-/Vacuum-relief Valve API RP 576 - Section 6.6 - Inspection, Testing, Maintenance & Setting of Weight-loaded Pressure and/or Vacuum Vents on Tanks API RP 577 - Section 1 - Scope API RP 577 - Section 3 - Definitions API RP 577 - Section 4 - Welding Inspection Tasks Prior to, During and Upon Completion of Welding Operations; Non- conformances and Defects; NDE Examiner Certification; Safety Precautions API RP 577 - Section 5 - Welding Processes Shielded Metal Arc Welding (SMAW), Gas Tungsten Arc Welding (GTAW), Gas Metal Arc Welding (GMAW), Flux Cored Arc Welding (FCAW), Submerged Arc Welding (SAW), Stud Arc Welding (SW)
1000 - 1015	Break
1015 – 1230	 API RP 577 - Section 11 - Refinery and Petrochemical Plant Welding Issues API RP 577 - Appendix A - Terminology and Symbols Weld Joint Types, Weld Symbols, Weld Joint Nomenclature, Electrode Identification ASME Section V - Nondestructive Test Methods Ultrasonic Thickness Testing, Liquid Penetrant Testing, Magnetic Particle Testing, Radiographic Film Interpretation
1230 - 1330	Lunch
1330 - 1530	ASME Section IX - WPS and PQR Requirements Review Procedure Exercise
1530 - 1545	Break
1545 - 1615	ASME Section IX - Welder Certification
1615 - 1630	Course Conclusion
1630 - 1645	POST-TEST
1645 – 1700	Presentation of Course Certificates
1700	End of Course



FE0710 - Page 11 of 13





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 7 days following the course completion. Each participant has only one trial for the MOCK exam within this 7-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.

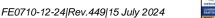
Practical Sessions

Practical sessions will be organized during the course for delegates to practice the theory learnt. Delegates will be provided with an opportunity to carryout welding inspection using the "IntegriWISE[™]" simulator, "American Welding Society (AWS) Tool Kit" and "Structural Weld Replica Kit", suitable for classroom training.



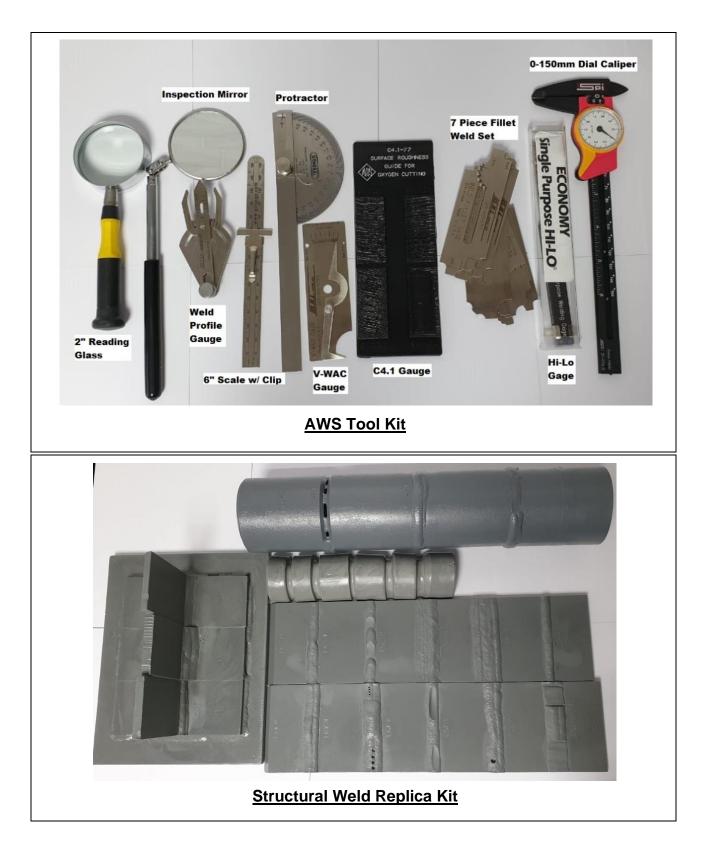


FE0710 - Page 12 of 13









Course Coordinator

Mari Nakintu, Tel: +971 2 30 91 714, Email: mari1@haward.org



FE0710 - Page 13 of 13

