



**Centre For  
Professional Welding Technologies,  
Technical Training & Certification**

# About Us



**Advanced Metallurgy and Welding (AMW) Technology Sdn Bhd** is a metallurgy and welding technology training & certification centre providing various technical training, assessment and certification courses of competent personnel who are able to work and develop careers in Oil & Gas, Marine, Petrochemical and Shipbuilding industries. AMW Technology also offers engineering and welding fabrication support services to meet the industries needs.

**AMW Technology** is a HRDF certified training centre since established in 2013, and currently is striving to be certified with ISO 9001 Quality Management System.

In collaboration with BV (Bureau Veritas Malaysia), **AMW Technology** is capable in offering technical and consultancy services in areas of skill certification training as well as internationally recognized Inspection Certification for all onshore/offshore fabrication works and technically competent skilled personnel. As a registered member with MAS-ACB (Malaysian Authorized Certification Body of Asian Welding Federation) under the leadership of Institute of Materials Malaysia (IMM), **AMW Technology** is capable in the provision of a wide range of highly demanded technical and certification courses as tabulated in Page 4.

The technical and certification courses offered by **AMW Technology** are developed and maintained under the guidance of industry based committees and presented by qualified and experienced lecturers. All courses are referenced to relevant international code/standard/specification requirements.

Training facilities including a practical welding workshop with individual state of the art welding bays, modern and fully equipped classrooms are readily available in **AMW Technology**.



AMW Technology's Reception Area



Team of AMW Technology



Training in progress on welding defects



Trainer explains on possible defects detected by Radiography



Welding Qualification Test in progress



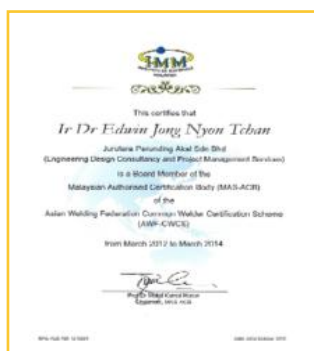
Oxy-acetylene cutter in operation



HRDF Certified Training Centre



HRDF Certified Trainer Certificate



MAS-ACB Certification for AWF-CWCS Welder Skill Training Program





## Services

- ◆ Provision of Professional Training, Competency Assessment and Certification to Welding Technologists, Engineers, Welding Inspectors, NDT Inspectors and Skilled Welders.
- ◆ Provision of Fabrication Design & Support Services in relation to Welding Technology, Metallurgy, Materials and Corrosion Engineering.
- ◆ Provision of Metallurgical & Technical/Structural Integrity Assessment Services. Implementation of AWF-CWCS Certification Programme as per ISO 9606-1 requirements.
- ◆ Development & Interpretation of Welding Procedure Qualification Records (WPQR)

## Objectives

- ◆ To develop qualified and certified competent welding technologists, engineers, welding inspectors, NDT inspectors and skill welders in line with the industrial needs.
- ◆ To provide a Centre of Excellence for Education, Training and Transfer of Technology in the relation to metallurgy, Materials, Corrosion and welding engineering fields in accordance to internationally recognized standards in line with AWF-IMM guidelines.
- ◆ To be the preferred Welding Technology Centre and Solutions Provider serving the Steel Fabrication and Construction for Oil & Gas Sectors, Ship Building Industries as well as other Steelworks related industries within Malaysia as well as the Asian region.

## Visions & Missions

- ◆ To be Best in Class in Metallurgy and Welding technologies to uphold the Company's Business Objective and Professional status.
- ◆ To provide a Centre of Excellence for Professional Training and Welding Technology Development with industrial recognition.

## Quality & HSE Policies

### QUALITY POLICY

**AMW Technology** is committed to provide professional welding training, competency assessment and certification to our clients with consistently out-standing quality, efficiency and comply with all applicable requirements.

We shall continually improve our QMS to keep abreast with ever-increasing market demands and expectations, in line with our Quality Policy as follows :-

- ◆ Achieve professional & excellence engineering & project management services to customers.
- ◆ Knowledge & technical Competence to uphold our Company image & reputation.
- ◆ Aspire towards effective & quality engineering & project management services to satisfy customers.
- ◆ Leading towards a quality & responsible professional with commitment in health, safety & environmental issues.

### HSE POLICY

**AMW Technology** is committed to the continuous improvement of its Health, Safety and Environmental practices with the following objectives:

- ◆ Prevent Accidents.
- ◆ Prevent Occupational Illness.
- ◆ Prevent Environmental Pollution.

**AMW Technology** will always focus and endeavour to :

- ◆ Comply with all applicable Health, Safety, and Environmental Legislations and other HSE requirements.
- ◆ Familiarize all employees and stakeholders with training, information and facilities available.
- ◆ Increase awareness and accountability at all levels of organizations.
- ◆ Monitor and regularly review our set objectives.
- ◆ In conjunction with our policy, the Company shall abide Rules and Regulations of the authorities to Occupational, Safety and Health Act 1994 and will revise our policy from time to time accordingly.



Visitors from Oil & Gas Company

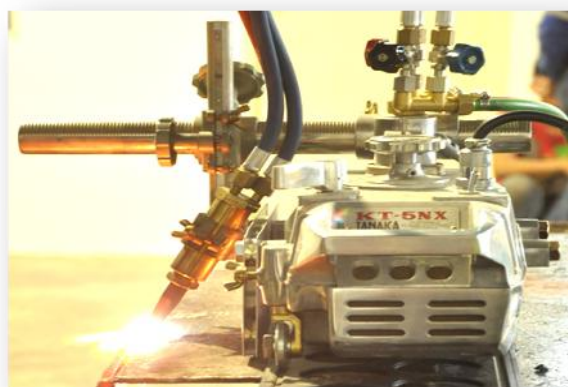


Technical Briefing by Trainer

# Our Facilities



**Training Room 1**



**Semi-Automatic Oxy-Acetylene Cutter**



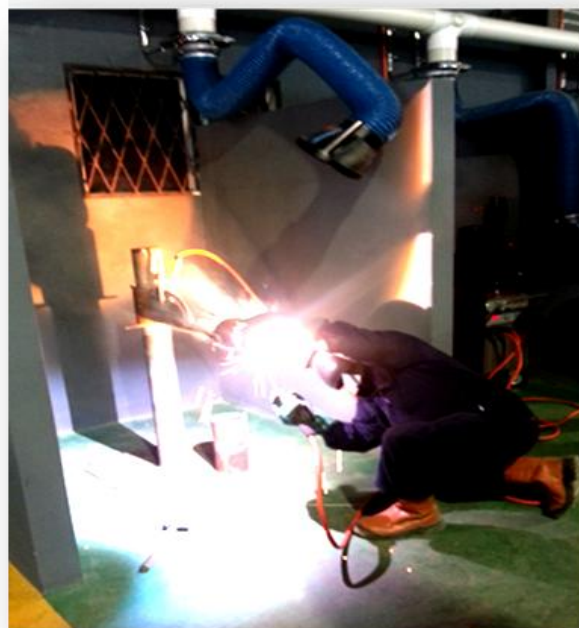
**Training Room 2**



**Welding Training**



**Conference Room**



**Our Trainer Demonstrates On The Welding Position**



**Welding Bay**



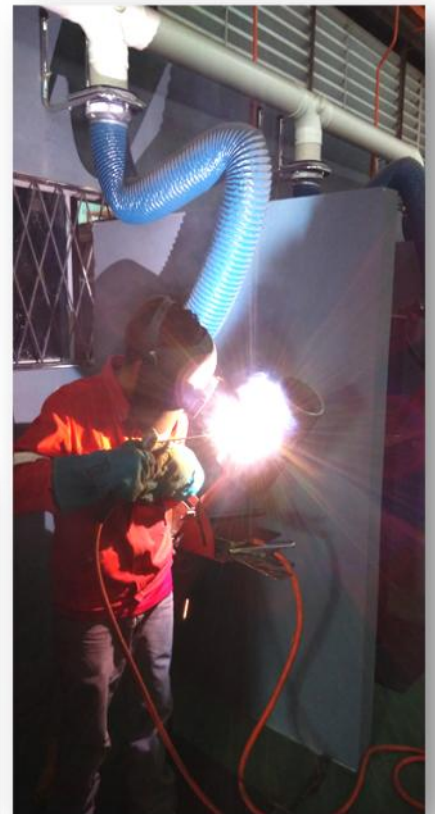
# Our Selected Activities



Materials Preparation For Welders Qualification Test (WQT)



Grinding Work In Progress



6G Position Test



3G Position Test



4G Position Test



Theoretical Test For Welders



Oxy-Acetylene Cutting In Progress



Group Photo After Graduation



Graduate As Certified Welders

# Trainers Profile



## Ir. Dr. Edwin Jong Nyon Tchan (HRDF Certified Trainer)

**Ir. Dr. Edwin Jong Nyon Tchan**, ABS, BSc (Hons), MSc (London), PhD (Imperial College), DIC, FIEM, FIMM, FIMMM, CEng, PEng, AAE.

Ir. Dr. Edwin Jong has graduated with a Doctorate Engineering Degree in Materials Engineering from Imperial College of Science, Technology and Medicine, University of London, England, United Kingdom. During his 21-year employment in Sarawak Shell Berhad in Miri, he has gained extensive hands-on working experiences dealing with materials and corrosion engineering, welding technologies and inspection techniques. He has also gained an extended experiences with various aspects of deepwater engineering design projects after being transferred to Shell Malaysia Regional Deepwater Engineering Project residing in Kuala Lumpur until he retired in April 2012.

In summary, Ir Dr Edwin Jong has gained seven years of scientific research experiences while working as a research scientist with ICI Advanced Materials Research in Runcorn and a total of 21 years working experiences mainly in the Oil and Gas Industry upstream sector, holding various positions as Company Metallurgist, Senior Materials & Corrosion Engineer, Principal Materials & Corrosion Engineer, Senior RBI Engineer, Senior Materials & Welding Engineer cum Team Lead and a Technical Authority (TA) dealing with all technical aspects of Materials and Corrosion Engineering, Welding Technology, RBI-based Integrity Assessment and Inspection Techniques.



## Mr. Bernard Sim (HRDF Certified Trainer)

**Mr. Bernard Maxmillan Sim** is a HRDF certified trainer and a JWES certified Senior Welding Engineer, API 510 Pressure Vessel Inspector, API 570 Piping Inspector, CWB Level III Welding Inspector, CSWIP 3.2 Senior Welding Inspector and Radiographic Interpreter, CSWIP/BGAS Painting Inspector II, ASNT level II Magnetic Particle Testing, Dye Penetrant Testing and Ultrasonic Testing, Bachelor in Construction Management, Diploma in International Welding Inspector, Diploma in European Welding Inspection Practitioner, Diploma in Mechanical Engineering and Certificate in Petroleum Engineering.

Mr. Bernard Sim is currently attached to Bureau Veritas Malaysia as an Industry Manager. Until to-date, he has gained 13 years of working experiences in areas of welding certification, inspection, testing and approval for onshore and offshore structures, marine vessels, modules, process piping, pressure vessels and lifting equipment.

He often gives lectures to in-house shipbuilding and marine surveyors and fabricator quality control personnel. He is conversant with most of international welding codes such as API 577 & 1104, ASME IX, AWS D1.1, ISO 15607 & 9606 & 15, BS 287 & 288 etc.



## Mr. Chin Teck Eng (HRDF Certified Trainer)

**Mr. Chin Teck Eng** has possessed 13 years of working experiences in marine shipbuilding industry. He has vast working experiences in preparation of Quality Management System (QMS) documentation, Welding Procedure Specification (WPS) and inspection for building new vessels. He coordinates and ensures project procedures, method statements and project relevant documents are being established, approved in timely manner and implemented effectively. He leads the team of project and inspection for all the quality inspection activities from welding inspection, NDT, ship heavy/light machinery installation cum shaft — cardan shaft/pump alignment, until the whole vessel commissioning up to sea worthiness.

He also monitors quality implementation on-site and reviews reports generated by inspectors/engineers in-charge. He is conversant in IACS Member, Classification Society such as BV, NK rules & regulations, IACS Recommendation 47/ UR W28 and ISO codes.



## Mr. Manja Ak Melat (Certified Welder Trainer)

**Mr. Manja Ak Melat** has 30 years of hands-on welding experiences at on-shore and offshore structural welding, tank repairs and maintenance, process piping and construction vessels. He is a Shell/Petronas Approved Skilled Welder and gained vast experiences working with MJVI Sdn Bhd, Mechico Sdn Bhd, Rekeyasa Industri Malaysia Sdn Bhd and SKS Wood Sdn Bhd.

He has also possessed vast working experiences in offshore maintenance and construction, facilities and onshore fabrication works with an extensive experiences of all welding works including SMAW and GTAW up to 6G.

He is currently a certified welder for GTAW and SMAW welding processes.



# List of AMW Technical Training Courses

Course Code	Course Description	Duration
<b>A) Technical Courses for Engineers, Technical Personnel/Management</b>		Days
TC-101	An overview of Materials Strength Requirements in Welding Design	2
TC-102	API RP 571 Damage Mechanisms Affecting Fixed Equipment in the Refining Industry	3
TC-103	Fabrication Quality and Application in Engineering	2
TC-104	ISO 29001 – Quality Management Systems	1
TC-105	ISO 9001—Quality Management System: Quality Audit Experience	2
TC-106	Materials and Metallurgy	2
TC-107	Metallurgy and Materials Behaviors during Welding	2
TC-108	Quality Control, Safety and Inspection During Fabrication by Welding	2
TC-109	Solidification and Phase Transformation in Welding of Steels, Aluminum & Titanium Alloys	1
TC-110	Welding Design and Construction/Fabrication by Welding	2
TC-111	Welding Processes & Welding Equipment (Welding Technology for Engineers)	2
TC-112	Welding Technology for Engineering Management Personnel	2
TC-113	A 3-Day Welding Fabrication Awareness Course for Technical Personnel	3
TC-114	A 5-Day Workshop on Stainless Steel and Nickel Alloy Materials for Technical Personnel	5
<b>B) Certification Courses for Inspectors</b>		Days
CC-201	BV Certified Welding Inspector I & II Courses including Written, Practical and Oral Assessments	6
CC-202	Mastering English Language and Technical Report Writing for Certified Inspectors	8
<b>C) Training &amp; Certification Courses for Skill Welders</b>		Months
Welder Skill Training, Qualification, Assessment and Certification to Internationally Recognized Welding Codes including AWS D1.1, ASME Section XI, API 1104, ISO 9606-1, etc...		
TC-301	SMAW Process to 6G Positions + WQT	3
TC-302	GTAW Process to 6G Positions + WQT	3
TC-303	Combined Processes (GTAW + SMAW) to 6G + WQT	3
TC-304	Refresher & Re-certification of Welder Skill Training Course	Days
TC-304A	SMAW Process to 6G Positions + WQT	5
TC-304B	GTAW Process to 6G Positions + WQT	5
TC-304C	GMAW Process to 6G Positions + WQT	5
TC-304D	FCAW Process to 6G Positions + WQT	5
TC-305	Course in Welding Technology – Guidelines for Welding Instructors	5
TC-306	Courses in Welding Stainless Steels including Ferritic, Austenitic and Duplex Stainless Steels	5





**Advanced Metallurgy & Welding Technology Sdn. Bhd.**  
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