



IMM Welding Certification Scheme

**IMM-Japan Welding Engineering Society (JWES)
Welding Engineers Certification Courses**



HRDF claimable

Code: AWE/WE/SWE

The Institute of Materials, Malaysia (IMM) in collaboration with the Japan Welding Engineering Society (JWES) will conduct courses and examinations required for the certification of ASSOCIATE WELDING ENGINEER (AWE), WELDING ENGINEER (WE) & SENIOR WELDING ENGINEER (SWE).

JWES is an organisation accredited by the Japan National Accreditation Board (JNAB) to certify personnel according to the requirements of ISO 17024.

Objectives

- (1) To provide training, knowledge and examination required for the Welding Engineer Certification in accordance to JWE5-WES8013:2008 - Standard of Certification of Welding Coordination Personnel and ISO 14731 - Welding Coordination Tasks and Responsibilities
- (2) To provide participants with advanced certification of ASSOCIATE WELDING ENGINEER (AWE), WELDING ENGINEER (WE) & SENIOR WELDING ENGINEER (SWE) for aspiring leaders / instructors to produce skilled welding engineers in the future
- (3) To diversify the participants' capability through exercises in this training course

Course content

ASSOCIATE WELDING ENGINEER (AWE)

- (1) Welding processes and equipment
- (2) Materials and their behavior during welding
- (3) Design and construction
- (4) Fabrication and application engineering

WELDING ENGINEER (WE)

- (1) Advanced welding processes and equipment
- (2) Advanced materials and their behavior during welding
- (3) Advanced design and construction
- (4) Advanced fabrication and application engineering

SENIOR WELDING ENGINEER (SWE)

- (1) Welding processes and equipment
- (2) Materials and their behavior during welding
- (3) Design and construction
- (4) Welding design & fabrication of frame structures
- (5) Welding design & fabrication of vessels

Course duration

AWE: 6-day theory+ 1-day written exam

WE: 6-day theory + 1-day written exam

SWE: 6-day theory + 1-day written & oral exam

Who should attend

This course is suitable for professionals with working experience in welding and fabrication, who are willing to upgrade their skills according to international standards. Participants can choose any two of the standards from API 1104, ASME IX, AWS D1.1 and ISO 5817 for their assessment.





Pre-requisite(s)

ASSOCIATE WELDING ENGINEER (AWE)

- (1) Welding Engineer, OR
- (2) Have experience as Welding Instructor, OR
- (3) Inspector of welded products

WELDING ENGINEER (WE)

- (1) Have passed the AWE Examination, AND
- (2) Have attended a previous AWE training course

SENIOR WELDING ENGINEER (SWE)

- (1) Have passed the WE Examination, AND
- (2) Have attended a previous WE training

Certificate

IMM-JWES Certified Associate Welding Engineer
IMM-JWES Certified Welding Engineer
IMM-JWES Certified Senior Welding Engineer

