

# ASSET INTEGRITY MANAGEMENT: TECHNICAL AND VOCATIONAL EDUCATION AND TRAINING, AND HIGHER EDUCATION PROGRAMMES

TWI DIPLOMAS FOR CAREER PROFESSIONALS

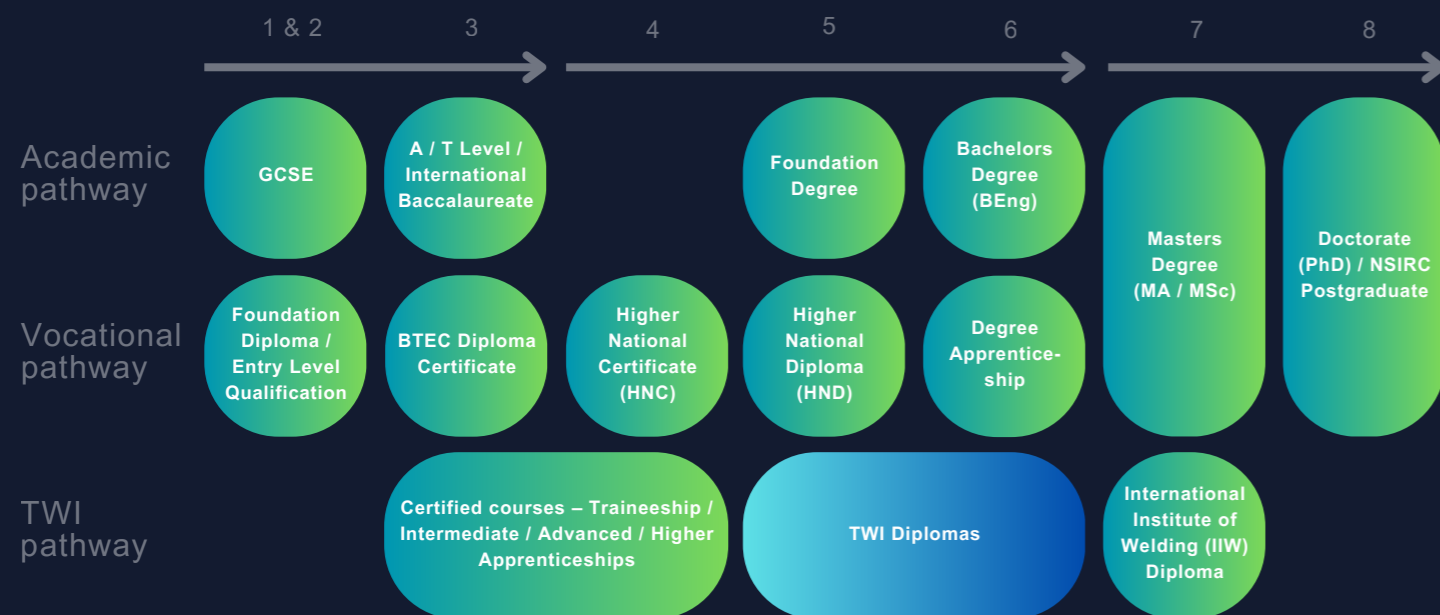


- ⚙️ **Internationally recognised**
- ⚙️ **Blended, flexible learning**
- ⚙️ **Industry collaboration**

# About TWI Global Academy

TWI Global Academy empowers individuals around the world who are working, or planning to work, in engineering technologies by giving them an effective route to industry relevant, internationally recognised certifications and qualifications. Providing a bridge between technical and vocational education and training, and higher education programmes, TWI certifications and qualifications are delivered by TWI experts with many years' technical, operational and industrial experience, providing candidates with a clear pathway for professional development.

TWI Global Academy comprises the National Structural Integrity Research Centre (NSIRC) in the UK and NSIRC International, and TWI Training and Examination Services world-wide delivered through UK and global centres.

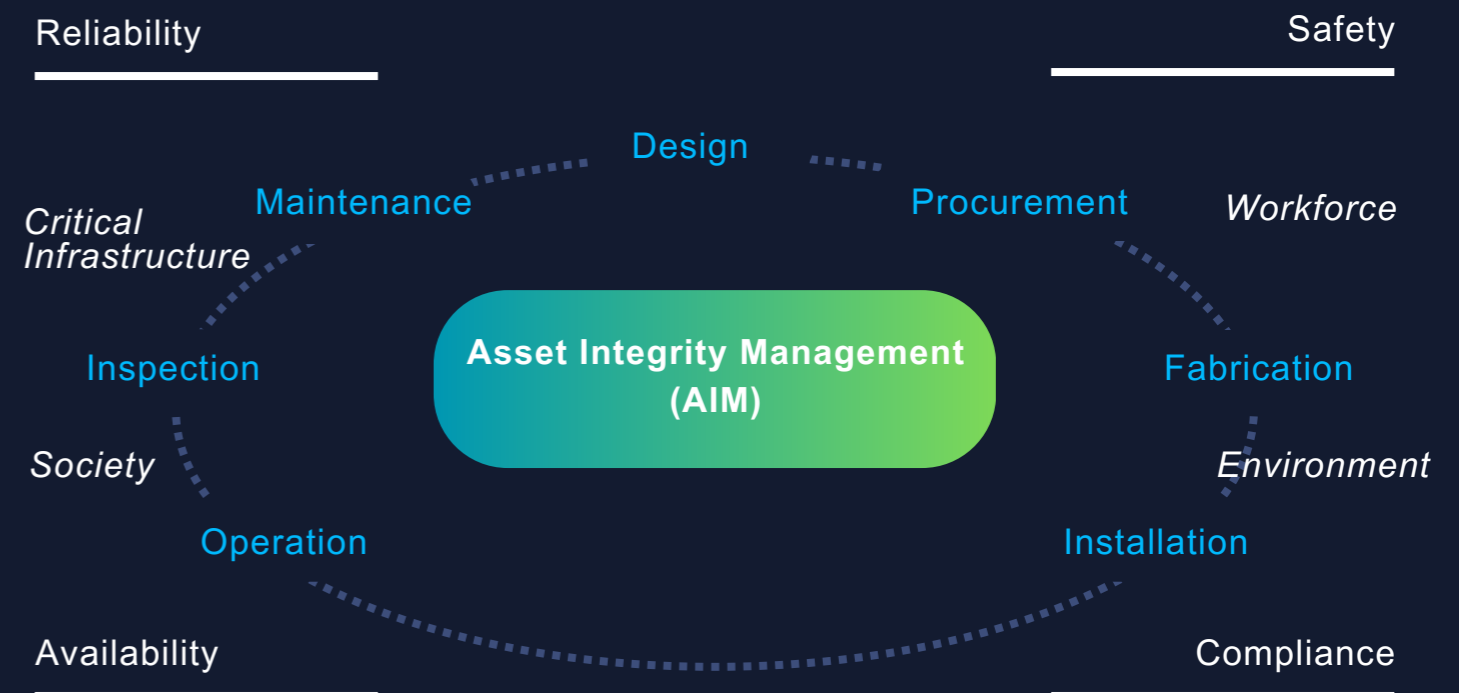


# TWI Diplomas

## Asset Integrity Management (AIM)

Elevate your career and improve your job prospects with internationally recognised TWI Diplomas for engineering professionals and graduates

### AIM IN CONTEXT



## Who is a TWI Diploma for?

The most sought after engineering professionals combine hands-on delivery skills – with in-depth, industrial and technical knowledge learnt from higher education programmes such as advanced diplomas – enabling them to map out a clear career path, take on management responsibility and contribute to business innovation.

TWI Diplomas in Asset Integrity Management are designed for:

- Operatives and technicians working in plant and asset maintenance, inspection and monitoring seeking to undertake professional qualifications
- Recent engineering graduates looking to gain more practical skills for workplace application
- Lifelong learners committed to maintaining industry relevant knowledge and expertise, and technical competency



# Benefits of a TWI Diploma

TWI Diplomas build your knowledge and expand your sphere of reference from day 1 – starting with concepts and theories, progressing through practical exploration and applications, and onto advanced techniques and industry specific expertise – leading to significantly enhanced job prospects in the future.

Benefits include:

- **Internationally recognised, professional qualifications** – global relevance and worldwide engineering value
- **Practical skills** – emphasis on hands-on learning and practical skills development for application in the workplace
- **Entrepreneurship** – a springboard to starting your own business or moving into business management and contributing to economic development
- **Flexibility** – tailor your study schedule around work and home-life responsibilities, undertake each Diploma level in 1-2 years
- **Lifelong learning** – goes beyond traditional classroom education, enabling you to stay professionally relevant and up-to-date with evolving industries and technologies
- **Collaboration with industry** – programme curricula aligned with current industry standards and practices, making your knowledge and skills relevant to employers

## Programme Structure

AIM Operator Diploma (underpinning concepts and theories) – duration: 1-2 years	
1	Introduction to asset integrity management (AIM)
2	The American Society of Engineers (ASME), and other codes and standards
3	Processes, asset selection and inspection
4	Understanding materials properties
5	Welding technology*
6	Non-destructive testing (NDT) technology*
7	Process plant inspection*
8	Project: case studies

\*This module is eligible for professional certification with relevant experience – contact us for further information.

## Programme Structure Continued

AIM Specialist Diploma (practical exploration and applications) – duration: 1-2 years	
1	Asset integrity and process safety
2	Optimising asset performance
3	Quality and equipment deficiency management
4	Fitness-for-service Level 1 (FFS L 1)*
5	Introduction to risk based inspection (RBI)
6	Damage mechanisms*
7	Safety critical elements and equipment (SCE)
8	Project: Fitness-for-service (FFS)

\*This module is eligible for professional certification with relevant experience – contact us for further information.

AIM Professional Diploma (advanced techniques and industry specific expertise) – duration: 1-2 years	
1	Implementing asset integrity management programmes
2	Repair of pressure equipment and piping*
3	Data management
4	Fitness-for-service Level 2 (FFS L 2)*
5	Integrity management software, part 1
6	Integrity management software, part 2
7	Hazard identification (HAZID), and hazard and operability analysis (HAZOP)
8	Project: asset life extension using software

\*This module is eligible for professional certification with relevant experience – contact us for further information.



# Why Choose the TWI Diploma Experience?

TWI Diplomas offer you an unparalleled study environment that is closely aligned to industry's needs with conversion to real-world application, opening up new opportunities for professional growth and career progression.

- **Engage with expert content** through an innovative approach to online, interactive e-learning and in-person sessions
- **Learn from peer-to-peer collaboration** by connecting with fellow participants, industry professionals and potential employers, sharing with others and building your network
- **Participate in industry-led lectures** by our faculty of world-class experts delivering unique insights and perspectives from their fields
- **Professional growth** through developing proprietary and marketable skills that you can apply to advance your career
- **Career progression** offering enhanced employability, making you a sought-after candidate in the job market with access to a wide range of job prospects
- **Industry recognition** via a programme that equips you with the necessary skills to take on new opportunities within your chosen industry
- **Achieving well-recognised certifications and/or qualifications**, validating your expertise and enhancing your professional reputation
- **Ongoing support and resources** from TWI Global Academy, ensuring you continued success in your professional journey

## Entry Requirements

A technical engineering qualification or HND (Higher National Diploma) equivalent is essential.

## About TWI Ltd

TWI Global Academy is part of TWI Ltd, the world-renowned, independent, engineering research and technology organisation that supports both companies and individuals internationally. TWI provides authoritative and impartial, expert advice, knowhow and safety assurance through engineering, materials and joining technologies, helping industry players internationally to design, operate and manage the best products and systems possible. With facilities around the world, the company employs more than 900 staff, serving 600 Member companies in 80 countries. TWI also houses a professional body, The Welding Institute, with a separate membership of over 6,000 individuals. TWI's collective remit and services span innovation, knowledge transfer and problem resolution across all aspects of welding, joining, surface engineering, inspection and whole-life integrity management.

## TWI Ltd



**Tat-Hean Gan**  
Director of  
Membership,  
Innovation and  
Global Operations,  
TWI

"The TWI Diplomas in Asset Integrity Management are cutting-edge new programmes designed to give candidates a distinct advantage in their chosen profession. All of TWI Global Academy's professional courses are targeted at accelerating careers, elevating organisations and advancing industry around the globe. This benefits the individual by enabling them to take control of their career path through technical and vocational education and training, and higher education, and their employer through the acquisition of advanced knowledge, skills and experience into the organisation."

*"Positive impact is consequently delivered at the local and regional level over time, leading to upskilled and more productive workforces, optimised marketplaces and strengthened economies, and a safer world ensured for all."*

## Apply

## TWI Diplomas in Asset Integrity Management (AIM)

START YOUR JOURNEY TODAY

To find out more and discuss how our programmes could benefit you or your organisation, simply email [enquiries@twiglobalacademy.com](mailto:enquiries@twiglobalacademy.com) and a course Advisor will be in touch directly.

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