

AVC Academy

Fifty-three courses across eight pathways, running from Level I foundations through Level II practitioner courses to Level III specialist and leadership content.

Taught by the people
who do the work

AVC Engineering is a technical consultancy for asset-intensive operations across oil and gas, refining, petrochemicals, fertilisers, power, renewables and mining. We work from London, Aberdeen, Abu Dhabi and Cairo. The Academy catalogue is drawn directly from the five service portfolios AVC delivers, plus a pathway in applied artificial intelligence.

Every course is taught by practitioners who deliver that work commercially. We do not teach subjects we do not practise.

AMP · 4 Asset Management Professional	AIP · 8 Asset Integrity Professional	CMP · 4 Corrosion and Materials Professional
RMP · 8 Reliability and Maintenance Professional	PSP · 9 Process Safety Professional	HSP · 8 HSE Professional
EMP · 6 Energy Management Professional	AAI · 6 Applied Artificial Intelligence for Industrial Operations	53 COURSES 8 PATHWAYS

ALIGNED TO

IAM Certificate & Diploma

AMPP certification

API inspector certifications

IEC 61511 functional safety

MSc with University of Aberdeen

HEADQUARTER

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PATHWAY 01 • AMP

Asset Management Professional

For engineers and managers accountable for asset strategy, investment planning and the ISO 55001 management system. Progresses from the principles of asset management to leading a certification programme and owning whole-life investment decisions.

LEVEL I – FOUNDATION

AMP-101 Asset Management Foundations

LEVEL II – PRACTITIONER

AMP-201 Building and Implementing an Asset Management System

AMP-202 Asset Management Maturity Assessment and Improvement Planning

LEVEL III – SPECIALIST

AMP-301 Asset Life Cycle Strategy and Life Cycle Costing

PATHWAY 02 • AIP

Asset Integrity Professional

The technical core of the Academy, and the pathway with the widest demand. Runs from damage mechanisms and integrity fundamentals through risk-based inspection practice to fitness-for-service and life extension. Level III courses articulate with the MSc-level programme delivered with the University of Aberdeen.

LEVEL I – FOUNDATION

AIP-101 Asset Integrity Management Foundations

AIP-102 Damage Mechanisms in Process Plant

LEVEL II – PRACTITIONER

AIP-201 Corrosion Loops, Monitoring Locations and Integrity Operating Windows

AIP-202 Risk-Based Inspection Practitioner

AIP-203 Inspection Strategy, Planning and Effectiveness

AIP-204 Pressure Equipment, Piping and Tank Integrity Assessment

LEVEL III – SPECIALIST

AIP-301 Fitness-for-Service and Remaining Life Assessment

AIP-302 Ageing Asset Management and Life Extension

PATHWAY 03 • CMP

Corrosion and Materials Professional

For corrosion engineers, materials engineers and the integrity personnel who depend on their output. Runs from corrosion fundamentals to failure analysis, and articulates with AMPP certification where participants are pursuing it.

LEVEL I – FOUNDATION

CMP-101	Corrosion Fundamentals for Process Plant
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LEVEL II – PRACTITIONER

CMP-201	Corrosion Management Frameworks and Corrosion Control Documents
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CMP-202	Materials Selection for Oil and Gas Service
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LEVEL III – SPECIALIST

CMP-301	Metallurgical Failure Analysis and Root Cause Investigation
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PATHWAY 04 • RMP

Reliability and Maintenance Professional

For reliability engineers, maintenance engineers, planners and the supervisors who execute the strategy. Built on AVC's Maintenance Excellence Pyramid, which sequences capability in the order it has to be developed — work management and data first, then analysis, then optimisation.

LEVEL I – FOUNDATION

RMP-101	Maintenance and Reliability Foundations
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RMP-102	Criticality Assessment and Asset Hierarchy
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LEVEL II – PRACTITIONER

RMP-201	FMECA and Reliability-Centred Maintenance Practitioner
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RMP-202	Preventive Maintenance Optimisation and Equipment Strategy
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RMP-203	Condition Monitoring and Predictive Maintenance
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RMP-204	Defect Elimination, Bad Actor Analysis and RCFA
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RMP-205	Work Management, CMMS and Maintenance Data
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LEVEL III – SPECIALIST

RMP-301	RAM Modelling and Production Availability
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PATHWAY 05 • PSP

Process Safety Professional

For process, operations and safety engineers with responsibility for major accident hazards, and for the leaders who accept the residual risk. Runs from process safety fundamentals through study facilitation and functional safety to quantitative risk and safety case demonstration.

LEVEL I – FOUNDATION

PSP-101	Process Safety Management Fundamentals
PSP-102	Hazard Identification and HAZID Facilitation

LEVEL II – PRACTITIONER

PSP-201	HAZOP Leadership and Facilitation
PSP-202	LOPA and Safety Integrity Level Determination
PSP-203	Functional Safety and SIL Verification
PSP-204	Bowtie Analysis and Barrier Management
PSP-205	Relief, Blowdown and Flare Systems

LEVEL III – SPECIALIST

PSP-301	Consequence Modelling and Quantitative Risk Assessment
PSP-302	Safety Case Development and ALARP Demonstration

PATHWAY 06 • HSP

HSE Professional

For HSE practitioners, line managers and the supervisors who authorise hazardous work. Focused on the controls that actually prevent harm rather than on documentation, and taught with the worksite verification discipline AVC applies in its audits.

LEVEL I – FOUNDATION

HSP-101	HSE Management Systems
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LEVEL II – PRACTITIONER

HSP-201	Permit to Work, Task Risk Assessment and Safe Systems of Work
HSP-202	Occupational Health and Industrial Hygiene Essentials
HSP-203	High-Risk Activity Management
HSP-204	Contractor HSE Management
HSP-205	Emergency Preparedness, Response and Crisis Management
HSP-206	Environmental Management and Compliance for Industrial Operations

LEVEL III – SPECIALIST

HSP-301	HSE Assurance, Audit and Due Diligence
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PATHWAY 07 • EMP

Energy Management Professional

For process engineers, utility engineers and energy managers accountable for consumption, cost and the energy contribution to decarbonisation. Grounded in the reconciled energy balance rather than in reporting, and delivered by practitioners who optimise plants for a living.

LEVEL I – FOUNDATION

EMP-101	Industrial Energy Management Foundations
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LEVEL II – PRACTITIONER

EMP-201	Energy Auditing and Performance Diagnostics
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EMP-202	Energy Baselines, Performance Indicators and Measurement and Verification
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EMP-203	Utility System Optimisation
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LEVEL III – SPECIALIST

EMP-301	Pinch Analysis and Heat Integration
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EMP-302	Industrial Decarbonisation and Net-Zero Pathways
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PATHWAY 08 • AAI

Applied Artificial Intelligence for Industrial Operations

The Academy's newest pathway. It teaches AI as an engineering tool applied to asset, energy and safety problems — what it can do, what it cannot, what data it requires, and how to govern it in an environment where a wrong answer has physical consequences.

LEVEL I – FOUNDATION

AAI-101	Artificial Intelligence Fundamentals for Engineers and Managers
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LEVEL II – PRACTITIONER

AAI-201	Industrial Data Foundations for AI
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AAI-202	AI for Asset Integrity and Reliability
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AAI-203	Energy AI — Machine Learning for Energy Performance and Decarbonisation
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AAI-204	AI Governance, Assurance and Risk for Industrial Deployment
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LEVEL III – SPECIALIST

AAI-301	Generative and Agentic AI in Engineering Practice
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DEPTH, NOT SENIORITY

A Level III course assumes the Level II content of its pathway; participants entering from another discipline are placed by a short competency screen rather than by job title. Delivered in-company, in open enrolment cohorts, and virtually where the content permits.

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