

Reliability & Operational Excellence

Twenty-one services across six disciplines — reliability analysis, maintenance strategy, failure elimination and asset performance management — delivered to the standards our clients are measured against.

Asset Performance Maximisation

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.

A study is worth only what it changes. Every service in this portfolio ends in loaded strategy, a tracked action or a measured limit, with an owner.

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SEC.04 · 3 Maintenance Systems, Data and Performance Reporting	SEC.05 · 3 Assurance, Readiness and Major Events	SEC.06 · 2 Asset Performance Management and Integrated Improvement

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SEC. 01

Criticality and Reliability Analysis

The analytical foundation. These four studies establish what matters, how it fails, what maintenance is technically capable of preventing, and what availability the plant can realistically be expected to deliver.

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| 01 | Criticality Assessment for Assets and Equipment |
| 02 | Failure Modes, Effects and Criticality Analysis (FMEA / FMECA) |
| 03 | Reliability-Centred Maintenance (RCM) Study |
| 04 | Reliability, Availability and Maintainability (RAM) and Production Availability Modelling |

SEC. 02

Maintenance Strategy and Optimisation

What the organisation believes about maintenance, expressed as executable strategy, and then made efficient. These five services build the strategy, optimise what already exists, and set the condition monitoring and spares provision that support it.

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| 05 | Maintenance Philosophy Development |
| 06 | Equipment Strategy Development |
| 07 | Maintenance Strategy and Preventive Maintenance Optimisation (PMO) |
| 08 | Condition Monitoring and Predictive Maintenance Strategy and Roadmap |
| 09 | Spare Parts Criticality and Optimisation Study |

SEC. 03

Failure Elimination and Performance Analysis

Where the losses actually are, why they keep happening, and whether the organisation is getting better. These four services turn maintenance history into a ranked, quantified improvement agenda.

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| 10 | Bad Actor and Chronic Failure Analysis |
| 11 | Defect Elimination Programme Development |
| 12 | Downtime, Loss and Reliability Growth Analysis |
| 13 | Maintenance Backlog Analysis and Optimisation |

SEC. 04

Maintenance Systems, Data and Performance Reporting

Every analysis in this portfolio is built on the maintenance system and the data inside it. These three services establish whether that foundation can carry the weight being placed on it.

- 14 Asset Hierarchy and Maintenance Taxonomy Review
- 15 Computerised Maintenance Management System (CMMS) Health Check
- 16 Maintenance KPI Framework and Dashboard Design

SEC. 05

Assurance, Readiness and Major Events

Independent assurance at the three moments where maintenance and reliability performance is decided: the periodic health check, the transition from project to operations, and the turnaround.

- 17 Maintenance and Reliability Maturity Assessment
- 18 Operational Readiness and Assurance (OR&A) Study
- 19 Turnaround and Shutdown Assurance Planning

SEC. 06

Asset Performance Management and Integrated Improvement

The integrating layer. These two services connect the individual reliability, maintenance and integrity processes into one system, and deliver the improvement programme that follows from it.

- 20 Asset Performance Management Framework
- 21 Integrated Asset Performance Improvement Study

SEQUENCE MATTERS

Maintenance Excellence Pyramid

Capability is built in order: work management and data first, then planning, loss analysis and condition monitoring, then criticality and strategy, then optimisation and life cycle cost.

DELIVERED TO

- SAE JA1011 / JA1012
- IEC 60812
- ISO 14224
- ISO 20815
- ISO 15663
- ISO 17359
- ISO 13374
- ISO 18436
- EN 13306
- API 691
- ISO 55001

