



MoiCoE
Malaysia AI
Centre of Excellence
Smart Ideas. Smarter Nation



AI-POWERED ANALYTICS

for Intelligent Decision-Making

HRD Corp Claimable Course ID: 10001655904

Unlock smarter strategies with AI-Powered Analytics for Intelligent Decision-Making. Learn how to transform data into actionable insights, enhance forecasting accuracy, optimize performance, and drive evidence-based decisions that create measurable organizational impact.



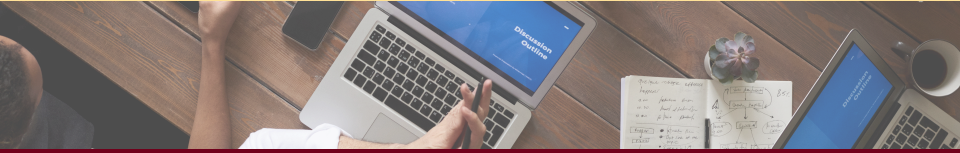
More Info

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PROGRAMME OVERVIEW

This executive programme is designed to equip Board members and senior leaders with a clear understanding of how Machine Learning (ML) and Deep Learning (DL) improve the quality, consistency, and defensibility of organisational decisions, without requiring technical or coding expertise. The programme focuses on decision intelligence, how data-driven models support forecasting, prioritisation, risk assessment, early-warning systems, and selective decision automation. Participants learn where AI-enabled decisions add value, where they introduce risk, and how they should be governed at Board and executive levels.

Through executive-level case studies, decision simulations, and facilitated discussions, participants develop the ability to ask the right questions of management and technical teams, assess the reliability and explainability of AI outputs, and ensure alignment with organisational strategy, risk appetite, and regulatory expectations. By the end of the programme, participants will be able to sponsor, oversee, and govern AI-enabled decision systems confidently, ensuring that intelligent decisions remain transparent, ethical, accountable, and aligned with long-term organisational objectives.

88%

of companies worldwide have already integrated AI into their operations, with another 42% exploring its potential.
Source: DemandSage 2026

78%

of global companies are using AI in their daily operations.
Source: Exploding Topics 2026





Key Takeaways

By the end of this programme, participants will be able to:

- **Understand how Machine Learning and Deep Learning** improve decision quality, speed, and consistency.
- **Identify key organisational decisions** where AI-driven insights can add the most value.
- **Assess AI-supported decisions** based on business impact, risk, and confidence, rather than technical detail.
- **Recognise limitations, bias, and uncertainty** in AI-enabled decisions and determine when human oversight is required.
- **Ask the right governance and oversight questions** when sponsoring or reviewing AI decision initiatives.
- **Apply appropriate governance, ethical, and accountability principles** to ensure trustworthy AI-driven decisions.

“ AI enhances decision-making by transforming large volumes of data into meaningful, actionable insights. It helps organisations detect patterns, forecast trends, assess risks, and evaluate multiple scenarios quickly and accurately. Instead of relying solely on intuition, leaders can make evidence-based decisions supported by real-time analytics. AI also reduces human bias, improves consistency, and enables faster responses in dynamic environments. Joining this course is highly beneficial because it equips participants with the confidence and knowledge to apply AI strategically, manage risks responsibly, and lead digital transformation initiatives effectively within their organisations. ”

Rayner Alfred

Professor of Computer Science (AI)
Professional Technologies
Malaysia AI Centre of Excellence

Who is this programme for?

This programme is suitable for professionals holding the following designations:

- ✓ Board Members & Non-Executive Directors
- ✓ C-Suite Executives – CEO, COO, CFO, CIO, CTO
- ✓ Chief Risk, Audit & Compliance Officers
- ✓ Heads of Strategy, Operations & Digital Transformation
- ✓ Senior Public Sector Officers & Policy Decision-Makers
- ✓ Senior Managers & Division Heads



PROGRAMME CURRICULUM

MODULE 1: From Data to Decisions: Why AI Matters to Leaders

Purpose: Establish AI as a decision capability; shift mindset from technology to decision value

Topics covered includes

- Data-driven vs intuition decisions.
- AI as decision engines.
- Decision types.
- Value & risk framing

MODULE 2: Predictive, Risk-Based & Prioritisation Decisions

Purpose: Show how AI supports forecasting, approvals, prioritisation, and risk scoring with trade-offs

Topics covered includes

- Predictive decisions;
- Thresholds
- Cost of errors;
- Risk appetite

MODULE 3: Early Warning & Complex Decision Signals

Purpose: Explain early-warning, anomaly detection, and alert governance for high-impact risks

Topics covered includes

- Early-warning systems;
- Signal vs noise;
- Escalation design
- Alert fatigue;

MODULE 4: Trustworthy Decisions: Explainability, Bias & Accountability

Purpose: Enable executives to assess trust, fairness, explainability, and accountability of AI decisions

Topics covered includes

- Explainable AI;
- Bias & fairness;
- Accountability;
- Auditability;
- Reputational risk

MODULE 5: Decision Automation & Operating Model

Purpose: Guide leaders on when and how to automate decisions responsibly with human oversight

Topics covered includes

- Decision automation vs support; overrides; drift monitoring
- Human-in-the-loop;
- Overrides and drift monitoring

MODULE 6: Decision Automation & Operating Model

Purpose: Equip Boards to sponsor, prioritise, and govern AI decision systems

Topics covered includes

- Board oversight roles
- Prioritization
- AI KPIs; roadmap design



TRAINING METHODOLOGY

- ✓ **Executive Case Studies** - Participants examine real examples of how AI improves forecasting, risk management, and decision-making. They discuss the impact on governance and organizational performance.
- ✓ **Scenario-Based Simulations** - Participants review AI-generated insights and practice making informed decisions. This builds confidence in evaluating AI recommendations responsibly.
- ✓ **Group Discussions** - Participants share experiences and challenges in adopting AI within their organisations. Discussions focus on risk, compliance, and accountability.
- ✓ **Framework-Based Exercises** - Participants use simple governance and risk frameworks to assess AI-supported decisions. This helps them apply structured oversight in practice.
- ✓ **Decision Evaluation Workshops** - Participants identify where AI can add value in their organisation. They outline practical steps for responsible AI implementation.

PROGRAMME HIGHLIGHTS



In-person session

Engage directly with AI industry experts in an interactive, face-to-face learning environment designed to provide practical insights into the latest advancements in AI and their real-world applications in Decision Making.



Cutting-edge content

Learn through a practice-oriented curriculum developed by MAICOE, integrating real industry case studies and insights from HRD Corp Accredited Trainers to deliver relevant, impactful, and experience-driven learning.



Capstone project

Develop a practical AI strategy and implementation roadmap that aligns with your organisation's goals, governance requirements, and long-term strategic vision.



Certificate of completion

Distinguish yourself with a certificate from MAICOE, an HRD Corp Registered Training Provider, delivered by Accredited Trainers and recognised for industry-relevant, future-focused executive education.



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ACCREDITED TRAINERS



Professor Ts. Dr. Rayner Alfred is an HRD Corp Accredited Trainer and a globally recognised AI expert (World's Top 2% Scientist) specialising in applied artificial intelligence, advanced data analytics, and intelligent decision-support systems. With extensive experience leading high-impact research, executive education, and industry collaborations in Malaysia and internationally, he focuses on translating advanced AI capabilities into strategic, board-level decision intelligence.

As Lead Trainer for AI-Powered Analytics for Intelligent Decision-Making, Prof. Rayner brings deep expertise in AI governance, risk management, and responsible AI adoption. His work supports organisations in strengthening decision quality, improving oversight, and navigating regulatory and compliance requirements while generating measurable business value. He has delivered executive and board-level programmes that bridge complex AI concepts with practical, real-world implementation – equipping senior leaders with the confidence, frameworks, and strategic insight required to sponsor, evaluate, and govern AI-enabled decision systems effectively and ethically.



Ts. Dr. Rayner Pailus is a Professional Technologist and experienced academic with strong expertise in data analytics, information systems, and digital transformation. He has led numerous applied research and industry engagement projects that focus on leveraging AI and emerging technologies to enhance organizational performance, governance quality, and strategic decision-making capabilities.

As Co-Lead Trainer for AI-Powered Analytics for Intelligent Decision-Making, he translates complex AI concepts into practical, executive-level frameworks aligned with regulatory and operational requirements. Through professional training and consultancy, he equips board members and senior leaders with actionable strategies to adopt AI responsibly, enhance compliance oversight, and drive sustainable, technology-enabled value creation.



MAICOE Advantages

- ✓ **Practical, Industry-Driven Learning:** Programmes designed with real-world case studies and applied implementation frameworks.
- ✓ **Executive-Focused Professional Development:** Specialized training for senior leaders to drive transformation and measurable outcomes.
- ✓ **HRD Corp Registered Training Provider:** Recognized for delivering claimable, high-impact workforce development programmes.
- ✓ **Accredited Trainers & Industry Experts:** Led by certified professionals with deep expertise in AI, finance, risk, and governance.
- ✓ **Trusted Partner for Future Skills Upskilling:** Committed to empowering organisations with AI-ready talent and strategic capabilities.
- ✓ **Verified Digital Certificates:** Upon completion of the program, participants will be awarded a verified digital certificate of participation by Malaysia AI Centre of Excellence training program.



✓ Program Details:
14 Hours (2-days)

✓ Program Fee:
RM4500.00

