Certified Artificial Intelligence Program Manager (CAIPM)

EXAM *Blueprint* v1

C|AIPM
Certified | Artificial Intelligence Program Manager

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Exam Blueprint

S. No.	Domain	Sub-domains	Description/Topics	Weightage	No. of Qs
1	**Foundations of Artificial Intelligence**	Introduction to AI	- Defining Artificial Intelligence - Exploring AI Categories - Adjacent AI Technologies like Robotic Process Automation (RPA) - Tracing AI's History - Promote awareness of AI limitations and benefits - Knowledge of emerging trends and future use cases of AI - Knowledge of machine learning theory and principles	**9%**	**9**
		Generative AI Foundations	- Understand Key AI Concepts and Their Relevance in Operational Settings (AI Ops) - Identify the Role of AI in Enhancing System Efficiencies (AI Ops) - Definition and Scope of AI Operations (AI Ops) - Benefits of Integrating AI into Operational Systems (AI Ops) - Core Components of AI Architecture (AI Ops)	**9%**	**9**

			- Designing Scalable AI Infrastructure (AI Ops) - Overview of AI Architecture Models (Transformer, Neural Networks) - Data Sampling for AI Including Regression Models - Knowledge of AI Lifecycle and MLOps Processes		
2	**AI Operations and Data Management**	AI Operations Foundations	- Applying AI for Business - Using AI for Business Collaboration - Supporting Users with AI - Talking to Coworkers About AI - Measuring AI ROI and KPIs - Support an AI Adoption Strategy Aligned with Organizational Vision, Mission, Goals - Identify Viable AI Projects Based on Organizational Needs - Use Knowledge of Business Processes to Create/Recommend AI Solutions	8%	8
		Data Management for AI Systems	- Identify Ways to Lead and Motivate People to Adopt AI Through Change - Coordinate with Change Management Employees to Plan, Foster, Track Change - Ability to Inspire and Lead a Culture of Innovation - Adoption Metrics: Readiness, Cultural Impact, Usability	8%	8

| 3 | AI Adoption Leadership | AI for Business | ▪ Learn How to Automate Business Processes Using AI (AI Ops)

▪ Analyze the Impact of AI-driven Automation on Operational Workflows (AI Ops)

▪ Key Concepts in Process Automation (AI Ops)

▪ Tools and Technologies for AI-driven Automation (AI Ops)

▪ Steps to Automate Processes Using AI (AI Ops)

▪ Evaluating Performance Improvements Through Automation (AI Ops) | 8% | 8 |
| | | Leading AI Adoption | ▪ Develop Data Management Strategies for Optimizing AI Performance (AI Ops)

▪ Implement Effective Data Handling Techniques for AI Applications (AI Ops)

▪ Ensure AI Design and Development Activities Are Properly Documented/Updated

▪ Overview of Data Storage and Processing in AI (AI Ops)

▪ Techniques for Efficient Data Management (AI Ops)

▪ Leveraging Big Data for AI Insights (AI Ops)

▪ Data Quality and Governance in AI Systems (AI Ops) | 8% | 8 |

			▪ Knowledge of How to Structure/Display Data ▪ Knowledge of How to Use Data to Tell a Story		
4	**Intelligent Automation and Prompt Engineering**	Intelligent Process Automation	▪ The Different Types of GenAI ▪ Leveraging GenAI for Businesses ▪ Choosing the Right GenAI solution ▪ Reviewing GenAI Limitations & Risks ▪ Knowledge of Remedies Against Unintended Bias in AI Solutions ▪ Knowledge of ML Blind Spots and Edge Cases	**9%**	**9**
		Prompt Engineering Boot Camp	▪ Defining Prompt Engineering ▪ Understanding Effective Prompts ▪ Crafting Strong Prompts ▪ Evaluating Prompt Outputs ▪ Adapting AI Prompt Modality	**9%**	**9**
5	**AI Security**	Cybersecure AI Principles	▪ The Role of AI in Cybersecurity ▪ Addressing AI Ethical & Legal Issues ▪ Maintaining Privacy with AI ▪ Enacting AI Controls to Manage Risk ▪ Enforcing AI Governance & Compliance ▪ Data Governance Roles & Responsibilities ▪ AI Incident Response & Monitoring	**8%**	**8**

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			▪ Maintain Knowledge of DoD AI Ethical Principles & Responsible AI ▪ Knowledge of Laws, Regulations, Policies on AI & Data		
		AI-based Security Solutions	▪ Apply AI-based Measures to Enhance System Security (AI Ops) ▪ Understand Role of AI in Modern Cybersecurity Frameworks (AI Ops) ▪ Security Challenges in AI Systems (AI Ops) ▪ AI's Role in Threat Detection and Prevention (AI Ops) ▪ Designing AI-driven Security Protocols (AI Ops) ▪ Case Studies of AI in Cybersecurity (AI Ops) ▪ Knowledge of AI Security Risks, Threats, Vulnerabilities ▪ Knowledge of Cybersecurity Principles ▪ Knowledge of Risk Management Processes	**8%**	**8**
6	**AI Applications and Future Trends**	Real-world AI Applications and Deployment	▪ Explore Case Studies of AI Applications in Industries (AI Ops) ▪ Manufacturing, Healthcare, Finance (AI Ops) ▪ Lessons from Successful Deployments (AI Ops) ▪ Gain Skills to Deploy AI Solutions Effectively Within an Organization (AI Ops)	**8%**	**8**

			▪ Process of Deploying AI in Real-world Settings (AI Ops) ▪ Techniques for Evaluating AI Performance (AI Ops) ▪ Consult with Stakeholders to Evaluate Functional Requirements ▪ Test How Users Interact with AI Solutions ▪ Gather Feedback on Customer Satisfaction & Service Performance ▪ Knowledge of User Experience, Psychology, Human Factors ▪ Engage and Collaborate with Allies/Partners to Advance Shared AI Objectives		
		Future AI Predictions	▪ Frontiers of Decision-support AI ▪ Quantum and Neuromorphic Computing in AI ▪ Anticipating Emerging AI Technologies ▪ AI's Societal and Economic Impact ▪ Regulatory and Ethical Frontiers in AI ▪ Preparing for the AI-driven Future	8%	8
		Total		100	100