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Course Name

Robotics Applications In government Sector

Sector Name

Information Technology

Document Type

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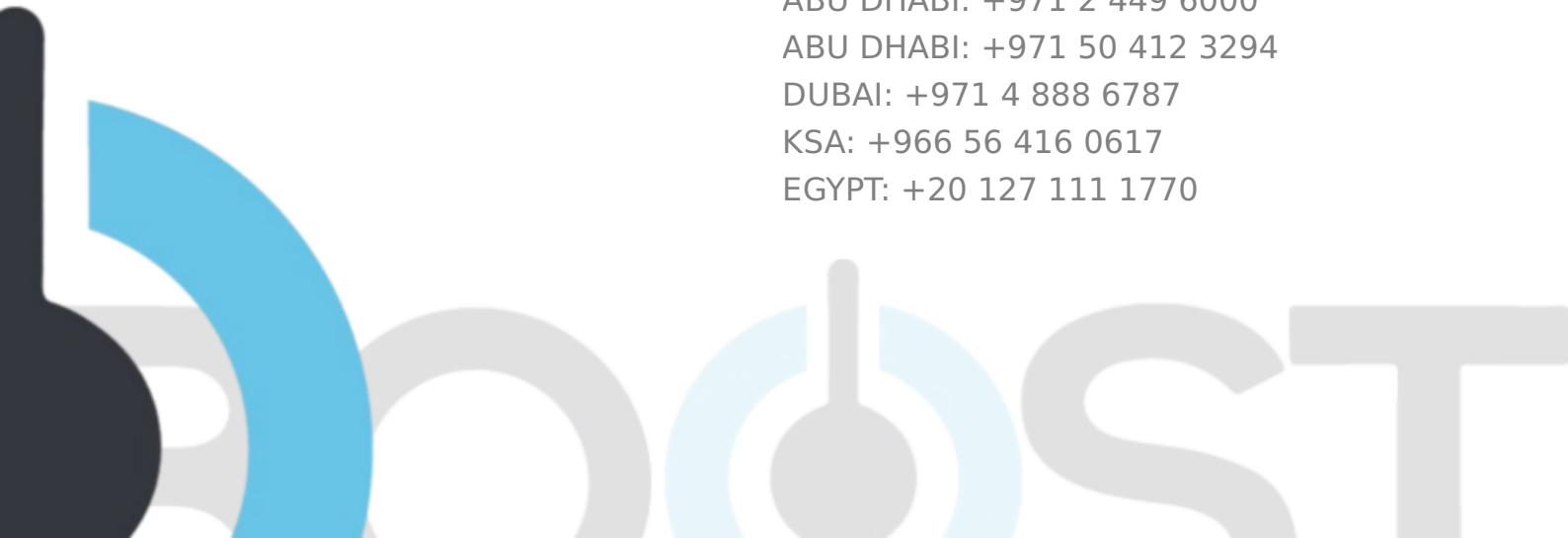
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Course Introduction

This comprehensive **5-day** training program explores how robotics technologies can be effectively implemented in the government sector to drive efficiency, accuracy, and innovation. Participants will gain insights into robotics applications across different public services, such as healthcare, security, infrastructure, and citizen engagement.

The course combines strategic understanding with hands-on examples, empowering government professionals to evaluate, adopt, and manage robotics initiatives.

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Target Audience

- ✓ **Government IT Professionals:** IT managers, system administrators, and technical staff in government departments who need to understand how robotics and automation can improve operations.
- ✓ **Public Sector Managers:** Government leaders and administrators responsible for overseeing the implementation and management of robotics projects within public organizations.
- ✓ **Policy Makers and Regulators:** Individuals involved in creating regulations, policies, and standards for the use of robotics in the public sector.
- ✓ **Government Engineers and Technicians:** Professionals working in infrastructure, public safety, transportation, or other government sectors, where robotics can enhance efficiency and safety.

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Learning Objectives

- ✓ Understand the fundamentals of robotics and their relevance to government operations.
- ✓ Identify key application areas of robotics within public services.
- ✓ Evaluate robotics technologies and assess their feasibility and ROI in government projects.
- ✓ Learn about the challenges and risks of robotics implementation in the public sector.
- ✓ Explore ethical, regulatory, and security considerations specific to government use.
- ✓ Develop action plans for piloting and scaling robotic solutions within their departments.

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Course Outline

✓ DAY 01

Introduction to Robotics and Smart Government

- ✓ Overview of robotics technologies: types, capabilities, and trends
- ✓ Role of robotics in digital transformation of public sector
- ✓ Understanding the smart government ecosystem
- ✓ Robotics vs. AI vs. Automation: Clarifying the differences
- ✓ Case studies from global governments using robotics
- ✓ Discussion: Where can robotics create value in your organization?

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Course Outline

✓ Day 02

Robotics in Public Services and Infrastructure

- ✓ Applications in healthcare (e.g., surgical robots, elder care support)
- ✓ Infrastructure maintenance and smart inspections using robots
- ✓ Waste management and environmental robotics
- ✓ Robotics in urban planning and civil engineering projects
- ✓ Live demonstration or video tour of robotic field applications
- ✓ Activity: Map current vs. potential uses in participant departments

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Course Outline

✓ Day 03

Robotics in Security, Surveillance, and Emergency Response

- ✓ Robots in law enforcement and public safety
- ✓ Drones and robotics in surveillance, border control, and traffic monitoring
- ✓ Search and rescue operations using robotics
- ✓ Defense and disaster response case studies
- ✓ Risk and limitation analysis of autonomous machines in critical roles
- ✓ Simulation: Responding to an emergency using robotics tools

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Course Outline

✓ Day 04

Implementation, Costing, and Ethics in Government Robotics

- ✓ Assessing project feasibility: costs, benefits, ROI
- ✓ Procurement strategies and vendor evaluation
- ✓ Cybersecurity, data protection, and privacy regulations
- ✓ Ethical dilemmas in robotic decision-making
- ✓ National and international regulations affecting robotic deployment
- ✓ Group case study: Draft an implementation plan for a robotics pilot

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Course Outline

✓ Day 05

Future Trends, Strategy, and Action Planning

- ✓ Emerging robotics innovations: humanoids, swarm robotics, telepresence
- ✓ Integrating robotics with AI, IoT, and 5G in government strategy
- ✓ Creating a robotics readiness roadmap for public institutions
- ✓ Leadership roles in robotics transformation
- ✓ Presentation of team action plans
- ✓ Final reflections, feedback, and certification

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Confirmed Sessions

FROM	TO	DURATION	FEES	LOCATION
April 25, 2027	April 29, 2027	5 days	4250.00 \$	KSA , Riyadh
Aug. 23, 2027	Aug. 27, 2027	5 days	4950.00 \$	England , London
Oct. 11, 2027	Oct. 15, 2027	5 days	2150.00 \$	Virtual , Online
March 15, 2027	March 19, 2027	5 days	4250.00 \$	UAE , Dubai
Aug. 1, 2027	Aug. 5, 2027	5 days	4250.00 \$	KSA , Riyadh

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