

Autonomous Vehicles in Logistics Training Course

Professional Development Training Course Outline

Category	Logistics and Supply Chain Management	Duration	5 Days
Base Fee	\$1,500 USD	Delivery Mode	Online / On-site Hybrid

Course Introduction

The logistics industry is undergoing a profound transformation driven by technological advancements, with autonomous vehicles (AVs) at the forefront. The integration of autonomous vehicles in logistics operations promises to enhance supply chain efficiency, reduce operational costs, and minimize human error. Autonomous Vehicles in Logistics Training Course provides participants with a comprehensive understanding of the technological frameworks, regulatory considerations, and operational strategies required to deploy autonomous vehicles effectively in logistics networks. Learners will gain insights into sensor technologies, AI-driven navigation systems, and vehicle-to-infrastructure communication, ensuring they are equipped to navigate the evolving landscape of automated logistics.

Participants will explore the practical applications of autonomous vehicles, from last-mile delivery solutions to fleet management optimization. The course emphasizes hands-on learning, case study analysis, and strategic implementation frameworks that align with current industry standards. By combining theoretical knowledge with practical insights, this training prepares logistics professionals, supply chain managers, and technology implementers to lead innovation initiatives that improve delivery accuracy, enhance safety, and optimize operational productivity.

Programme Curriculum

Autonomous Vehicles in Logistics Training Course

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Course Objectives

1. Understand the fundamentals of autonomous vehicle technologies in logistics.
2. Analyze AI-driven navigation systems and sensor integration for AVs.
3. Explore vehicle-to-vehicle and vehicle-to-infrastructure communication.
4. Assess the impact of autonomous vehicles on supply chain efficiency.
5. Examine regulatory and compliance frameworks for AV deployment.
6. Evaluate safety protocols and risk management strategies for AV operations.
7. Implement autonomous fleet management strategies.
8. Optimize last-mile delivery using autonomous vehicles.
9. Understand energy efficiency and environmental benefits of AVs.
10. Integrate AV technologies with existing warehouse and logistics systems.
11. Explore cost-benefit analysis for AV adoption in logistics.
12. Apply data analytics to monitor and improve AV performance.
13. Develop strategic roadmaps for organizational adoption of autonomous vehicles.

Organizational Benefits

- Increased delivery efficiency and reduced transit times.
- Lower operational costs through reduced labor dependency.
- Enhanced safety and reduced accident rates.
- Optimized fleet utilization and maintenance planning.
- Improved customer satisfaction through timely deliveries.
- Enhanced sustainability and reduced carbon footprint.
- Streamlined warehouse-to-customer logistics.
- Competitive advantage through innovative technology adoption.
- Better regulatory compliance and risk management.
- Data-driven decision-making and performance monitoring.

Target Audiences

1. Logistics and supply chain managers.
2. Fleet operations managers.
3. Transportation planners and coordinators.

4. Technology implementers in logistics.
5. Warehouse and distribution center managers.
6. Safety and compliance officers.
7. Business strategists in transport innovation.
8. Researchers and academicians in autonomous systems.

Course Duration: 5 days

Course Modules

Module 1: Introduction to Autonomous Vehicles in Logistics

- Overview of AV technologies and components
- Historical evolution of autonomous vehicles in transport
- Key trends in automated logistics
- Challenges in adopting AVs in supply chains
- Case Study: Deployment of AVs in a major e-commerce last-mile delivery

Module 2: AI Navigation and Sensor Integration

- Understanding AI algorithms for autonomous driving
- Sensor technologies: LIDAR, radar, and cameras
- Integration of AI with vehicle control systems
- Simulation and testing protocols
- Case Study: AI-enabled warehouse vehicle navigation

Module 3: Vehicle-to-Vehicle and Vehicle-to-Infrastructure Communication

- Overview of V2V and V2I technologies
- Role in traffic management and collision avoidance
- Communication protocols and cybersecurity considerations
- Integration with traffic control systems
- Case Study: Smart city logistics using connected AVs

Module 4: Fleet Management and Optimization

- Autonomous fleet scheduling and routing
- Maintenance prediction using AI analytics
- Performance monitoring and dashboards
- Cost optimization strategies for AV fleets
- Case Study: Multi-vehicle fleet efficiency in logistics

Module 5: Safety, Compliance, and Risk Management

- Regulatory frameworks for autonomous vehicles
- Safety standards and certifications
- Risk identification and mitigation strategies
- Emergency response protocols for AVs
- Case Study: Regulatory compliance in urban AV deployment

Module 6: Last-Mile Delivery Applications

- Autonomous delivery robots and drones
- Integration with delivery apps and tracking systems
- Reducing delivery time and errors
- Customer experience improvement strategies
- Case Study: AV last-mile delivery pilot program

Module 7: Energy Efficiency and Environmental Impact

- EV-powered autonomous vehicles in logistics
- Optimizing routes for energy savings
- Reducing carbon emissions through automation
- Sustainability metrics and reporting
- Case Study: Green logistics with autonomous fleets

Module 8: Strategic Implementation Roadmap

- Steps for integrating AVs in logistics operations
- Cost-benefit analysis for organizational adoption
- Change management and employee training
- Monitoring and evaluation of AV deployment
- Case Study: Roadmap for large-scale AV adoption in a logistics company

Training Methodology

- Interactive lectures with multimedia presentations
- Hands-on workshops with AV simulation tools
- Real-world case study analysis and discussion
- Group exercises for strategic problem-solving
- Live demonstrations of autonomous logistics vehicles
- Expert panel sessions and Q&A

Register as a group from 3 participants for a Discount

Send us an email: info@fineskilltrainingcenter.org or call +254769199797

Certification

Upon successful completion of this training, participants will be issued with a globally- recognized certificate.

Tailor-Made Course

We also offer tailor-made courses based on your needs.

Key Notes

- a. The participant must be conversant with English.
- b. Upon completion of training the participant will be issued with an Authorized Training Certificate
- c. Course duration is flexible and the contents can be modified to fit any number of days.
- d. The course fee includes facilitation training materials, 2 coffee breaks, buffet lunch and A Certificate upon successful completion of Training.
- e. One-year post-training support Consultation and Coaching provided after the course.
- f. Payment should be done at least a week before commencement of the training, to Fineskill Training Center account, as indicated in the invoice so as to enable us prepare better for you.

Upcoming Scheduled Sessions

Start Date	End Date	Location	Price
21 Sep 2026	25 Sep 2026	Online	\$1,000
21 Sep 2026	25 Sep 2026	Physical	\$1,500
21 Sep 2026	25 Sep 2026	Physical	\$0
21 Sep 2026	25 Sep 2026	Physical	\$0
21 Sep 2026	25 Sep 2026	Physical	\$0
21 Sep 2026	25 Sep 2026	Physical	\$0
21 Sep 2026	25 Sep 2026	Physical	\$0

Start Date	End Date	Location	Price
21 Sep 2026	25 Sep 2026	Physical	\$0

Ready to enroll or request a customized program? Book online or contact us:

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