NexBot Vision Training Course 913-003 - Level I

NexBot Robotics

SKU: NXB-TRN-913-003 | Category: Services & Training > Training Courses > Programming Training

Overview

The NexBot Vision Training Course 913-003 provides programmers and technicians with the essential skills to deploy, program, and maintain 2D vision systems for NexBot robots. This course is designed for engineers and integrators who need to implement vision-guided robotics for applications such as part location, inspection, and metrology. By covering both fundamental concepts and practical applications, attendees will gain the confidence to successfully integrate vision into their automated systems. The curriculum is structured as a 3-day intensive program, combining classroom theory with extensive hands-on lab exercises using dedicated training stations. Key topics include vision system hardware and software setup, camera calibration techniques, 2D pattern matching, blob analysis for object identification, and communicating vision results to the robot program. The course emphasizes practical problem-solving, with over 10 hands-on lab exercises designed to simulate real-world industrial challenges. With a small class size limited to a maximum of 8 students, each participant receives personalized attention and ample time with the equipment. Upon completion of this training course, students will be able to: create a complete vision process from start to finish, calibrate a camera to a robot's user frame, use pattern matching tools to locate parts with high precision, and troubleshoot common vision application issues. This skill set is directly applicable to tasks in industries such as electronics assembly, automotive manufacturing, and consumer goods packaging. The course provides a solid foundation for anyone looking to leverage the power of machine vision to enhance the capability and flexibility of their NexBot robotic systems.

Technical Specifications

Parameter	Value	Unit
Country of Origin	KR	

Safety Notice: This product must be installed and operated by qualified personnel in accordance with applicable safety standards (ISO 10218, IEC 61508).