



ADVANCED ROBOTICS

Essential Learning Topics



1. Build or assemble robotic devices or systems.
2. Disassemble and reassemble robots or peripheral equipment to make repairs such as replacement of defective circuit boards, sensors, controllers, encoders, and servomotors.
3. Troubleshoot mechanical failures or unexpected problems.
4. Resolve engineering or science problems using robots.
5. Train robots using artificial intelligence software to perform simple or complex tasks such as designing and carrying out a series of tests.
6. Install, program, and repair programmable controllers, robot controllers, end-of-arm tools, or conveyors.
7. Perform corrective maintenance on robotic systems or components.
8. Analyze test results in relation to design or rated specifications and test objectives, and modify or adjust equipment to meet specifications.