



# **ROBOTICS**

## **Essential Learning Topics**



1. Build or assemble robotic devices or systems.
2. Align, fit, or assemble component parts using hand tools, power tools, fixtures, templates, or microscopes.
3. Disassemble and reassemble robots or peripheral equipment to make repairs such as replacement of defective circuit boards, sensors, controllers, encoders, and servomotors.
4. Read blueprints, schematics, diagrams, or technical orders to determine methods and sequences of assembly.
5. Read and utilize technical drawings as necessary in robotic assembly and usage.
6. Troubleshoot mechanical failures or unexpected problems.
7. Resolve engineering or science problems using robots.