

# Test Project

Module G Testing and Fault Finding

*Autonomous Mobile Robotics*

Independent Test Project Designer: Derek Murphy, James Taylor  
Independent Test Project Validator: Johan Benade SCM

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## Introduction

The Testing and Fault-Finding module focuses on the Competitor's skill to test and find faults in given hardware. Competitors will be given a robot testing platform and testing software. Competitors are required to diagnose and report the fault and solutions to fixing the fault. This task is a 'fault-finding' and is conducted in a closed space to ensure equal chance for all teams.

## Description of project and tasks

Since Testing a Fault-Finding is simply an assessment of the competitor knowledge a 15-minute assessment window will be assigned to each competition team. Both competitors are required to take part in the assessment.

Each team will have 15 minutes in the fault-finding room to complete the task.

Competitors will receive a robot or platform, that they will need to examine and complete the template as a checklist.

## Instructions to the Competitor

Competitors are required to follow and complete the checklist as provided. You will circle YES or NO to answer the question given in the task or action. Then if required you will circle an appropriate action and response if required. If no recommended action is required you DO NOT complete this section, it would simply be YES or NO.

When choosing a recommended action, you only need to choose one that is appropriate to begin further troubleshooting.

Task or Action	YES	NO
Did the Linear Actuator Move?		
If NO select a recommended action below		
Replace Actuator	Check Wiring	Check Battery Fuse
		Check for short circuits

**You are not required to do any repair/replacement any component.**

## Other

The fully completed inspection report must be returned to the experts before you leave the Testing and Fault-finding room.