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# ROBOCUP RESCUE - ANALYSIS

## RoboCup Rescue

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In order to complete the Australian RoboCup Rescue, one must first break down what is required into a number of fundamental processes.

1. **Following a line**
  - a. RoboCup Rescue requires the robot to follow a line that is both straight and curved. The robot must be able to negotiate the curves without losing the line or the robot will need to restart the course.
2. **Turn at intersections indicated by the green square**
  - a. The Rescue course has a number of intersections that are marked with a green square which indicates the direction the robot is to turn.
3. **Know when the Chemical spill is reached**
  - a. When the robot reaches the chemical spill, the robot needs to be able to detect the silver foil strip which indicates the entrance to the chemical spill.
4. **Find the Victim**
  - a. Upon entering the chemical spill the robot needs to find the victim and push it clear of the chemical spill.

#### THE ROBOCUP RESCUE FIELD

The rescue field is designed for both the RoboCup Rescue and the RoboCup Premier Rescue. If you use the mat below without cutting it up into the individual tiles, Rescue robots can start from the end of the speed humps and follow the line to their End Tile. Treat the Obstruction tile as a straight line.

