Name:

Reconnaissance and surveillance

There will be a qualification trial at daylight; the main trial will be at night!

Environment:

Non-urban area, vegetation, acre, grass, sand, water, stones, bushes some semi-urban structures e.g. buildings roads, paths or infrastructure

Situation:

An NBC incident has occurred, search area for hazardous materials.

Situation at this location is unclear

Reconnaissance required without risking own personnel

Objective:

Perform reconnaissance at target location

Search for particular markers with special characteristics

If found, acquire imagery and position of marker and report to control station

Execution/Implementation:

Setup troop of max two people

Acquire own position (not known/given)

Approach target locations by using the marked target area (red circle in map) and given UTM co-ordinates.

This should be done with maximum autonomy available

Plot the route taken by the vehicle in a digital map

Perform reconnaissance at the target location - Find the markers

Photograph the markers with sufficient quality

Acquire position of markers using UTM/GPS coordinates

Report information (imagery and position) to control station

Timing:

Max: Duration approx. xx min.

Constraints:

There will be NO inspection of the operational area allowed or possible (not as in 2006)

Each team has to name a technician and an operator.

The two people are the troop

There can be only one person active at the control station

There will be no support at this location (Table, chair, electricity etc.)

The setup time counts as trial time!

The troop will receive a section of a digital map with UTM grid and measures and a target location in UTM co-ordinates.

This map section will contain the target area (not the precise target location) marked with a circle

See example

Medium: Memory-Stick.

The operator can control the vehicle by remote control, teleoperation, semi-autonomous (waypoint) or autonomous or in any combination of these methods

The route will contain mobile obstacles and on-the-fly modifications. For example, a dead-end can appear where the previous participant had a free road!)

With the transmission of the acquired data, the scenario is completed!

An intervention of the troop during the scenario is not permitted.

If for any reason the troop fails they can use the next available (unallocated) start slot for a retry

Every participant can retry as often as there are empty start slots available

The daylight scenario serves as the qualification for the identical night scenario

The constraints are identical for the night scenario

```
#! UTM (WGS84)
Target location
32U 564462.74m E 5547263.27m N
Exit waypoint 1
32U 564376.77m E 5547294.88m N
Exit waypoint 2
32U 564418.15m E 5547357.05m N
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FGAN fkie

EUROPEAN
ROBOTICS

33
⊢10 cm⊣

Min. 30 cm

⊢10 cm⊣
1088

40 cm

Für Hilfe, drücken Sie F1 auf Dialogbox, Menüeintrag oder Toolbutton