

# Pearson Edexcel GCE

## Applied Information and Communication Technology Unit 9: Communications and Networks

May 2015

**Scenario**

Paper Reference

**6959/01**

The scenario should be distributed to candidates at least three working weeks before the examination.

Note: There are **no** practice files for this examination.

This scenario should be used for the purposes of preparing candidates for the examination. This copy **must not** be taken into the examination. The information contained in the scenario will be included in the examination paper.

Further details are in the Instructions for the Conduct of Examinations (ICE), available from the Edexcel website for this qualification.

**Edexcel will not accept any request for special consideration should candidates be given the incorrect scenario for the examination they are sitting.**

Turn over ►

W48101A

©2015 Pearson Education Ltd.

1/



PEARSON

## Scenario

### Burt the Evil Genius's Evil Empire

Burt the Evil Genius's Evil Empire (BEGEE) has recently purchased a redundant civil defence bunker in Hertfordshire and is converting it into 'The Dungeon of Doom'. BEGEE already owns 'The Forest of Fear' in Surrey, 'The Temple of Peril' in Berkshire and 'The Caverns of Menace' in Kent.

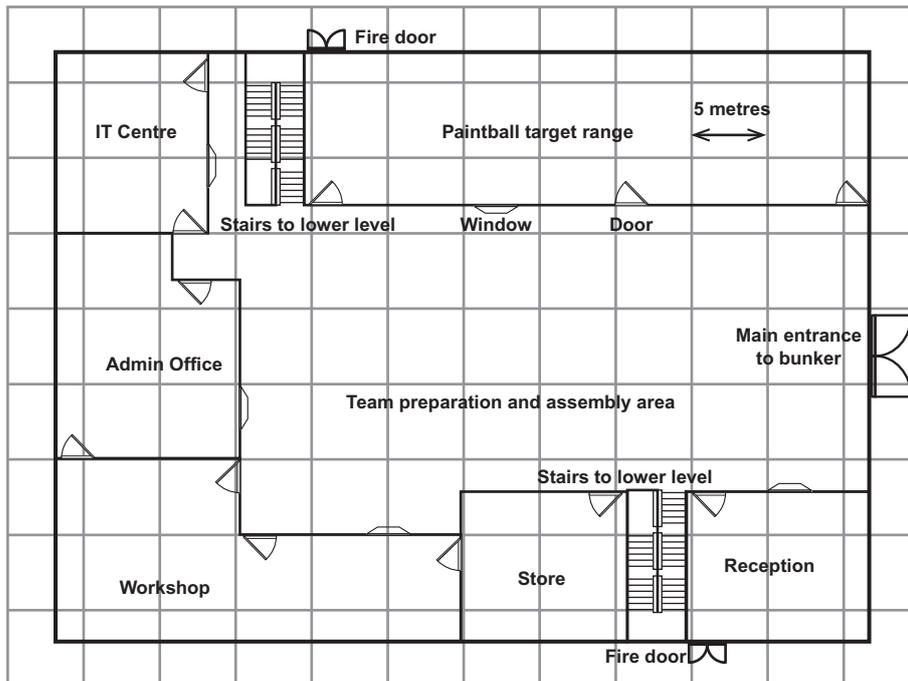
BEGEE is a paintballing company owned by Burt Wiltshire. The company's head office is in a small industrial unit near Slough and consists of a couple of offices and a workshop. Burt works from the head office or from his house, which is situated a few miles away. Each of the BEGEE sites has its own offices. These are connected to the head office via the Internet.

Most of BEGEE's business is basic paintballing, where opposing teams fight each other and BEGEE provides the equipment, training and location.

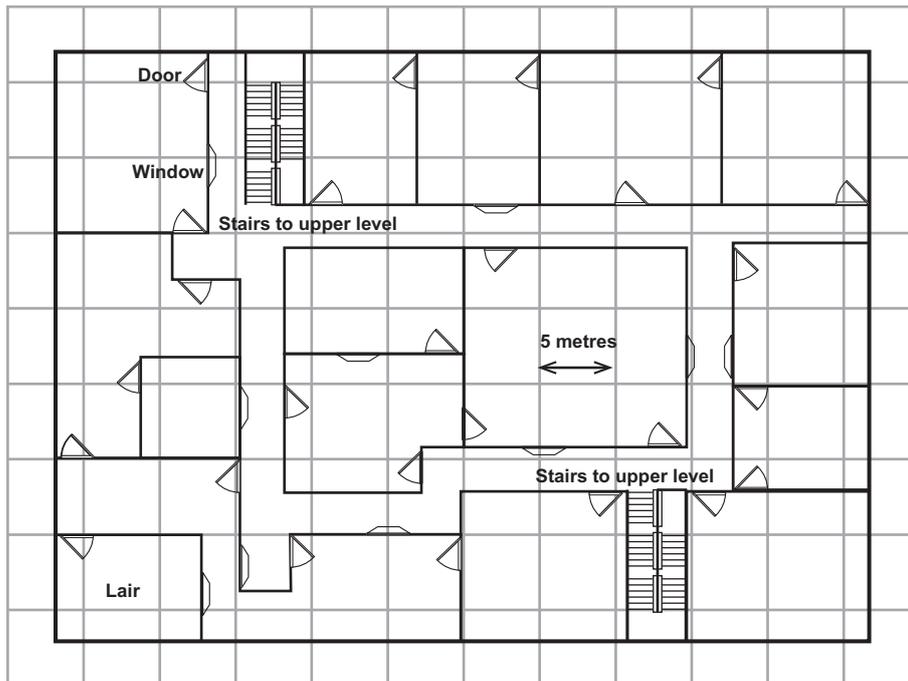
BEGEE's unique selling point is to provide an enhanced paintballing experience. A Lair has been constructed at the heart of each site. Teams pay a premium price to pit themselves against an 'Evil Genius' and his henchmen in order to capture the Lair. The idea has proved popular with corporate entertainment clients and Burt is expanding this aspect of BEGEE.

At first the Lairs were defended by BEGEE employees, but automation has gradually taken over. The Lairs are now protected by a large number of networked devices that trigger booby traps and automatic paint guns, which the attacking team must avoid. Burt wishes to develop the idea further in 'The Dungeon of Doom'.

The civil defence bunker, which is being used as 'The Dungeon of Doom', has two levels. The layout is shown in the diagrams.



**Upper Level**



### Lower Level

The upper level is built above ground and was used as a garage and workshop for civil defence vehicles. Burt has already had this level remodelled to his requirements. Interior walls are built of wood and plasterboard, exterior walls are thick concrete and Burt has no plans to make any further changes to the layout. The IT Centre already has an external telephone/internet connection. No other network cabling or equipment has been installed.

All areas of the upper level will need network and internet access for mobile devices. The rest of the network design is still being discussed.

The lower level is ten metres underground and very solidly built. Changing the layout would be difficult and expensive, so Burt has decided to keep all the walls in place. Some extra doors and windows have been cut to make the layout more maze-like.

Burt has had false ceilings installed throughout the lower level to give it a more closed-in feel. This left a useful area above the ceiling, which now holds the air conditioning system and power cables. The space will also be used for any other infrastructure that is needed. No network cabling or equipment has been installed.

Burt employs IT staff at each site but would like some fresh ideas for 'The Dungeon of Doom' project. You have been hired to advise Burt on all IT matters for the project. This will include:

- setting up a network for the site
- advising on technology for Lair defence ideas
- producing documentation for Burt and BEGEE employees.