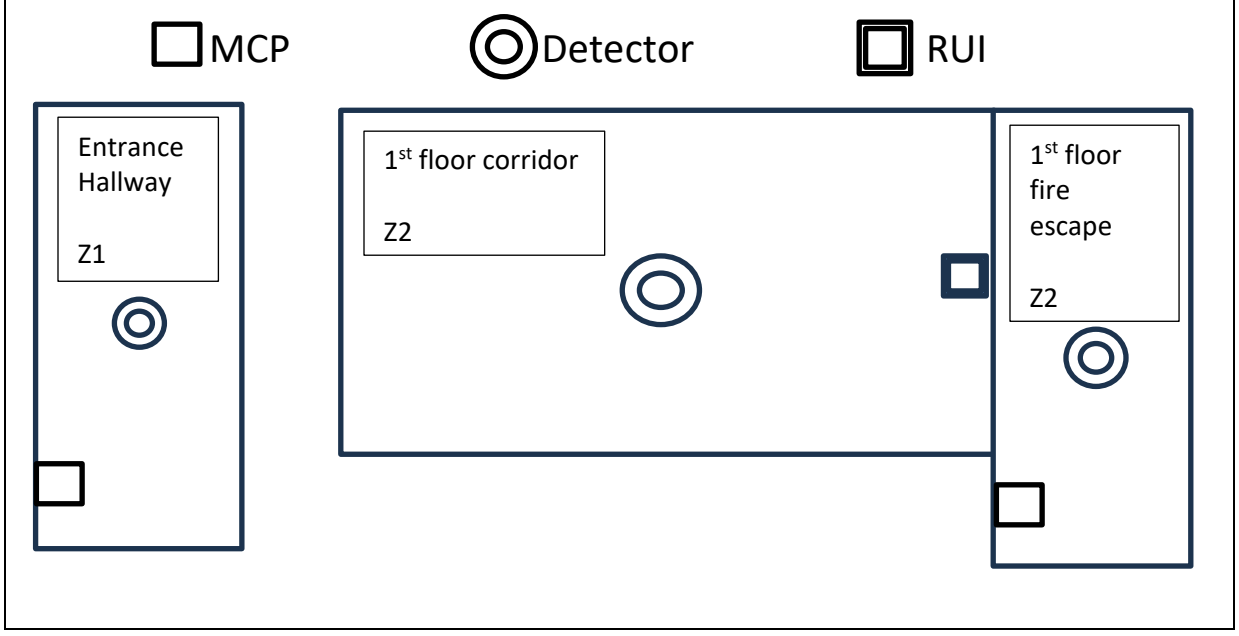
Fire, Emergency and Security Systems (Combined pathway)
Mock Practical Skills Test – Assessment Form

Task Two: Installing additions

Fire - Non-addressable system



Specification for additions – Conventional (Non-addressable)

Correctly identify device type and complete 'as fitted specification' before proceeding to carry out installation work following specification supplied.

- Install a suitable detector for specific room type.
- Install correct indication unit for additional detection.
- Install a Manual Call Point to system.

System Components			
Component	**Location**	**Type Required**	**Effect**
Detector	1st Floor fire escape	Please state	Cause FIRE activation
Indicator Unit	1st floor corridor	Remote Indicator unit	Activated from new detector to provide visual indication of fire escape detection
Manual Call Point	Adjacent to 1st floor fire escape door	MCP resettable break glass unit	Cause FIRE activation

Component	Zone
Entrance hallway MCP	1
Entrance Hallway detector	1
1st floor corridor detector	2
1st floor fire escape detector*	2
1st floor fire escape MCP	2

* RUI fitted within 1st floor corridor

Specification for additions

Correctly identify device type and complete ‘as fitted specification’ before proceeding to carry out installation work following specification supplied.

System	Component	Location	Type Required
CCTV	Additional IP Bullet camera providing analytic recording of view	Centrally mounted above rear fire door	Please state
Intruder Alarm	External warning device SAB	Centrally mounted above Door Entry Station	Pyronix DeltaBell SAB
Intruder Alarm	Wireless PET DT	Rear Left-Hand Corner of booth	Pyronix Wireless PET DT
Intruder Alarm	Grade 3 detector with dual detection technology providing confirmed alarm from single device	Front wall of bay covering general area	Please state

Ensure programing is as per the specification for all systems.

Task Three: Commissioning

Non-addressable Commissioning Checklist

Installed and commissioned by:		Date:	
Site address:			
Control panel type:		No. of zones:	
Standard(s) installed to:		No. of loops:	

Mains power	Checked satisfactory			
	Yes	No	N/A	Comments
Satisfactory continuity of supply				
System on a dedicated circuit				
Satisfactory labelling of supply				
Any residual current protection				
Fire resistant cable used				

Standby power	Checked satisfactory			
	Yes	No	N/A	Comments
Batteries secured				
Suitable wiring to stand by power supply				
Quiescent current reading available				
Alarm current reading available				
Battery calculations available				
Rating of charger adequate for full load				
Batteries of suitable type				
Batteries of adequate capacity				

Wiring	Checked satisfactory			
	Yes	No	N/A	Comments
Cables adequately protected from mechanical damage				
Cables adequately protected against fire				
Cables of suitable type				

Cables suitably supported				
Cable joints correctly terminated				
Wiring	**Checked satisfactory**			
	Yes	**No**	**N/A**	**Comments**
Junction boxes suitably labelled				
Insulation resistance test results satisfactory and recorded				
Fire alarm cables suitably segregated from other sources				
Area of loop satisfactory				
Number of zones per loop satisfactory				
Short circuit isolation adequate				
Location of short circuit isolators appropriate				
Call points remain operative in event of detector removal				
Conventional sounder circuits not spurred				
Control and indicating equipment	**Checked satisfactory**			
	Yes	**No**	**N/A**	**Comments**
Siting appropriate and to specification				
Controls secure from unauthorised access				
Zone plan and operating instructions adjacent to controls				
Internal wiring and workmanship satisfactory				
Tested to specification				
Cause and effect checked for correct operation				
Spare fuses and breakglass or resettable elements left on site				
Manual alarm call points	**Checked satisfactory**			
	Yes	**No**	**N/A**	**Comments**
Siting appropriate and to specification				
Mounted at correct height				
Common type throughout building				
Tested to specification				
Detection devices	**Checked satisfactory**			
	Yes	**No**	**N/A**	**Comments**
Siting appropriate and to specification				

Type of detectors suitable for risk				
Tested to specification				
Visual and audible alarms	**Checked satisfactory**			
	Yes	**No**	**N/A**	**Comments**
Sound level readings available				
Minimum of 2 sounder circuits				
Visual alarm devices installed (where appropriate)				
Ancillary equipment	**Checked satisfactory**			
	Yes	**No**	**N/A**	**Comments**
Relays suitably housed				
Interfacing correct				
Tested to specification				
Remote signalling systems	**Checked satisfactory**			
	Yes	**No**	**N/A**	**Comments**
Remote signalling systems installed				
System documentation	**Checked satisfactory**			
	Yes	**No**	**N/A**	**Comments**
System log book available				

Power readings and battery standby verification

PSU Voltage:		Standby battery capacity:		PSU current rating:			
Load test (quiescent current):		Location:		Load test (alarm current):			
Duration:		**x quiescent load**		**+ alarm load**		**=**	**Battery capacity**

Note: for 24hr standby: Duration factor = 30, for 48hr standby: Duration factor = 60, for 72hr standby: Duration factor = 90

Observations and variations

Areas checked and non-compliances observed	**Recommendations**

Test instrumentation		
Type of instrument	**Serial number**	**Calibration date**

KEY TO DEVICE TYPE	I = Isolation Smoke	F = Fixed Temp	B = Beam Detection	A = Aspirating	C = Carbon Monoxide
M = Manual Call Point	O = Optical Smoke	R = Rate of Rise	F = Flame Detection	VAD = Visual Alarm Device	S = Multi Sensor

Loop / Zone	**Device**			**Check**	
	No	**Type**	**Location**	**Fault**	**Alarm**

CCTV Commissioning Checklist

Installed and commissioned by:		Date:	
Site address:			

Mains power	Checked satisfactory			
	Yes	No	N/A	Comments
Continuity of supply satisfactory				
Double pole isolation				
Non-switched spurs fitted and correctly fused				
Suitable cable installed and protected against mechanical damage where necessary				

System Wiring	Checked satisfactory			
	Yes	No	N/A	Comments
Cables of a suitable type and conductor size				
Cables adequately clipped and supported				
Cables suitably terminated				
Cables protected from mechanical damage where appropriate				

Control equipment	Checked satisfactory			
	Yes	No	N/A	Comments
Location appropriate and to specification				
Suitable for the environment				
Securely fixed to manufacturer's instructions				

System components	Checked satisfactory			
	Yes	No	N/A	Comments
Location appropriate and to specification				
Suitable for the environment				
Securely fixed to manufacturer's instructions				

Maintenance	Checked satisfactory			
	Yes	No	N/A	Comments
Are all components readily accessible for maintenance purposes				
Is special access equipment required				

System Components

Location (as per spec)	Device Type and Model Number	Input Voltage	Cable Circuit Resistance

System Operation	Checked satisfactory			
	Yes	No	N/A	Comments
The specification has been adhered to	☐	☐	☐	
Clear images from all cameras	☐	☐	☐	
Camera type/lens correct for each position	☐	☐	☐	
Supplementary lighting satisfactory	☐	☐	☐	
Recorded images and time lapse satisfactory	☐	☐	☐	
Cameras overlook public areas	☐	☐	☐	
Camera field of view is appropriate	☐	☐	☐	
Data protection considered / incorporated	☐	☐	☐	

Power Supplies

Location (as per spec) and Type	Output Voltage	Quiescent Current

Intruder Alarm Commissioning Checklist

Installed and commissioned by:		Date:	
Site address:			

Mains power	Checked satisfactory			
	Yes	No	N/A	Comments
Continuity of supply satisfactory				
Double pole isolation				
Non-switched spurs fitted and correctly fused				
Suitable cable installed and protected against mechanical damage where necessary				

Standby power	Checked satisfactory			
	Yes	No	N/A	Comments
Battery capacity suitable for application				
Charger rating suitable for application				
Charger voltage and battery load recorded				
Batteries labelled and dated				

System Wiring	Checked satisfactory			
	Yes	No	N/A	Comments
Cables of a suitable type and conductor size				
Cables adequately clipped and supported				
Cables suitably terminated				
Cables protected from mechanical damage where appropriate				

Control equipment	Checked satisfactory			
	Yes	No	N/A	Comments
Location appropriate and to specification				
Suitable for the environment				
Circuit cable segregated from mains feed				

System components	Checked satisfactory			
	Yes	No	N/A	Comments
Location appropriate and to specification				
Suitable for the environment				

Securely fixed to manufacturer's instructions				
Maintenance	**Checked satisfactory**			
	Yes	**No**	**N/A**	**Comments**
Are all components readily accessible for maintenance purposes				
Is special access equipment required				
Are any special materials or equipment required for maintenance purposes				
System documentation	**Checked satisfactory**			
	Yes	**No**	**N/A**	**Comments**
System log book available				

Sensors

Circuit	Device Type	Area of Installation	Circuit Resistance	Voltage at Device	Current Drawn	Resistor Value Fitted

System Operation	**Checked satisfactory**			
	Yes	**No**	**N/A**	**Comments**
Device location and coverage appropriate to specification				
Correct operation of all detectors				
Correct operation of all system tampers				

Entry time		Exit time	
Warning device delay		Warning device duration	
Final set method		Unset method	
Battery capacity		Battery date recorded	

Quiescent load current		Alarm load current	
Warning device location		Warning device type	
Warning device voltage		Warning device current	