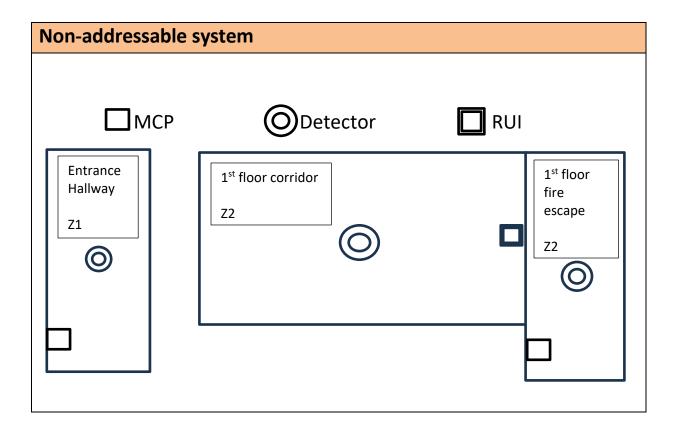


Fire, Emergency and Security Systems (Fire pathway) Mock Practical Skills Test – Assessment Form

Task Two: Installing additions





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	1 st Floor fire escape	Please state	Cause FIRE activation					
Indicator Unit	1 st floor corridor	Remote Indicator unit	Activated from new detector to provide visual indication of fire escape detection					
Manual Call Point	Adjacent to 1 st floor fire escape door	MCP resettable break glass unit	Cause FIRE activation					

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

* RUI fitted within 1st floor corridor



Addre	ssable Sys	tem				
	МСР		etector	VAD	A Relay L	Jnit
	Worksh	юр	\bigotimes (0	\wedge	
	Shop		Office			



Specification for additions – 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 VAD unit within new workshop
- Install interface relay to sprinkler system.

	System Components								
Component	Location	Type Required	Effect						
Detector	New workshop area	Please state	Cause FIRE activation						
Visual Alarm Device (VAD)	New workshop area	Please state	Sounder output						
Interface Relay Unit	Workshop (Adj sprinkler system)	Dry contact relay unit	Provide open circuit to sprinkler system upon FIRE activation						

Component	Address
Shop MCP	1
Shop detector	2
Office detector	3
Workshop detector	4
Workshop VAD	5
Sprinkler relay	6

Task Three: Commissioning

Non-addressable Commissioning Checklist							
Installed and						Date:	
commissioned by:							
Site address:							
Control panel type:						No. of zones:	
Standard(s) installed to:						No. of loops:	
Mains power			ed satisf		Commente		
-	upply	Yes	No	N/A	Comments		
Satisfactory continuity of su							
System on a dedicated circu	uit						
Satisfactory labelling of sup	ply						
Any residual current protec	tion						
Fire resistant cable used							
Standby power			ed satisf	_	Commente		
Batteries secured		Yes	No	N/A	Comments		
Suitable wiring to stand by p	nower						
supply							
Quiescent current reading a	available						
Alarm current reading availa	able						
Battery calculations availab	le						
Rating of charger adequate	for full load						
Batteries of suitable type							
Batteries of adequate capac	city						
Wiring		Checked satisfactory Yes No N/A Comments					
Cables adequately protected mechanical damage	d from	103			comments		
Cables adequately protecte	d against fire						
Cables of suitable type							
Cables suitably supported							

Cable joints correctly terminated						
Wiring		ed satisf				
	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	Checked satisfactory					
equipment	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 break glass or resettable elements left on site						
Manual alarm call points	-	ed satisf	-			
	Yes	No	N/A	Comments		
Siting appropriate and to specification						
Mounted at correct height						
Common type throughout building						
Tested to specification						
Detection devices		ed satisf	-			
	Yes	No	N/A	Comments		
Siting appropriate and to specification						

Type of detectors suitable for risk		
Tested to specification		

Minuel and audible alarma	Checked satisfactory						
Visual and audible alarms	Yes	No	N/A	Comments	5		
Sound level readings available							
Minimum of 2 sounder circuits							
Visual alarm devices installed (wher appropriate)	e						
Ancillary equipment	Chec	ked satis	actory				
Ancinary equipment	Yes	No	N/A	Comments	5		
Relays suitably housed							
Interfacing correct							
Tested to specification							
	Chec	Checked satisfactory					
Remote signaling systems	Yes	No	N/A	Comments	5		
Remote signaling systems installed							
System desumantation	Chec	Checked satisfactory					
System documentation		No	N/A	Comments	5		
System log book available							
Power readings and battery standby verification							
PSU Voltage:	Stand capad	lby batteı city:	ТУ –		PSU current rating:		

Duration:	x quiescent load		+ alarm load		=		Battery capacity
Load test (quiescent current):		Location:			Load test (alarm cur	rent):	
PSU VUllage.		capacity:		PSO current rating.			

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			

Serial number	Calibration date
	Serial number

KEY TO DEVICE TYPE		olation loke	F = Fixed Temp		B = Beam Detection	A = Aspirating		C = Carbon Monoxide		
M = Manual Call Point	O = Optio	cal Smoke	I Smoke R = Rate of Rise		F = Flame Detection	VAD = Visua Devid	N =		Multi Sensor	
Loop / Zopo	Device							Ch	eck	
Loop / Zone	No	Туре	Location					t	Alarm	

Addressable Commissioning Checklist							
Installed and						Date:	
commissioned by:							
Site address:							
Control panel:							
•						zones: No. of	
Standard(s) installed to:						loops:	
Mains power			ed satisf	-			
		Yes	No	N/A	Comments		
Continuity of supply satisfac	ctory						
System on a dedicated circu	iit						
Labelling of supply satisfact	ory						
Any residual current protec	tion						
Fire resisting cable used							
Stondby nowor		Checke	ed satisf	actory	•		
Standby power		Yes	No	N/A	Comments		
Batteries secured							
Wiring to stand by power su suitable	ipply						
Quiescent current reading a	vailable						
Alarm current reading avail							
	able						
Battery calculations availab							
Battery calculations availabl Rating of charger adequate	e						
	e						
Rating of charger adequate	le for full load						
Rating of charger adequate Batteries of suitable type Batteries of adequate capac	le for full load		ed satisf				
Rating of charger adequate Batteries of suitable type Batteries of adequate capac Wiring	le for full load :ity	Checke Yes	ed satisf No	actory N/A	Comments		
Rating of charger adequate Batteries of suitable type Batteries of adequate capac	le for full load :ity				Comments		
Rating of charger adequate Batteries of suitable type Batteries of adequate capac Wiring Cables adequately protected	le for full load :ity d from				Comments		
Rating of charger adequate Batteries of suitable type Batteries of adequate capac Wiring Cables adequately protected mechanical damage	le for full load :ity d from				Comments		
Rating of charger adequate Batteries of suitable type Batteries of adequate capac Wiring Cables adequately protecter mechanical damage Cables adequately protecte	le for full load :ity d from				Comments		

Wiring	Checked satisfactory				
wining	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	Checke	ed satisf	actory		
equipment	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 break glass or resettable elements left on site					
Manual alarm call points		ed satisf			
	Yes	No	N/A	Comments	
Sitting appropriate and to specification					
Mounted at correct height					
Common type throughout building					
Tested to specification					
Detection devices		ed satisf			
Sitting appropriate and to specification	Yes	No	N/A	Comments	
Type of detectors suitable for risk					
Tested to specification					

Visual and audible alarms		Checke	ed satisf	actory			
visual and audibl	e alarms	Yes	No	N/A	Comments	5	
Sound level readings a	vailable						
Minimum of 2 sounder	circuits						
Visual alarm devices in appropriate)	stalled (where						
Ancillary equipme	ant	Checke	ed satisf	actory			
Ancinary equiprin		Yes	No	N/A	Comments	6	
Relays suitably housed							
Interfacing correct							
Tested to specification							
Pomoto cignoling	austoma	Checked satisfactory					
Remote signaling	systems	Yes	No	N/A	Comments		
Remote signaling syste	ms installed						
Suctor documon	tation	Checke	ed satisf	actory			
System documen	lation	Yes	No	N/A	Comments	5	
System logbook availat	ble						
Power readings a	Power readings and battery standby verification						
PSU Voltage:		Standb capacit	y batter ty:	y		PSU current rating:	
Load test						Load test	

 Instruction
 Location:
 Instruction

 (quiescent current):
 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						

Highfield

Test instrumentation		
Type of instrument	Serial number	Calibration date

KEY TO I	DEVICE TYPE		lation oke	F = Fixed Temp	B = Beam Detection	A = Aspi	rating		C = Carbon Monoxide
M = Manual	IO = Inter	ace O=O	ptical	R = Rate of	F = Flame	VAD = \	/isual		S = Multi
Call Point	unit		oke	Rise	Detection	Alarm D	Device		Sensor
Loop /				Device				Ch	eck
Zone	Address	Address Type		Location (refe	er to spec / diag	gram)	Fault	t	Alarm