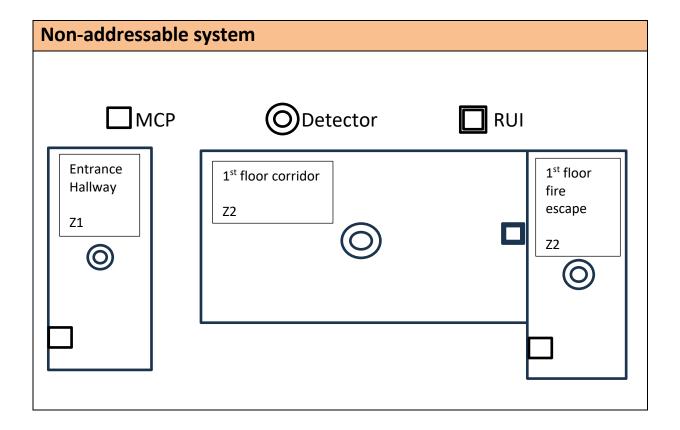


Fire, Emergency and Security Systems (Fire tasks) Mock Practical Assessment – Assessment Form

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.

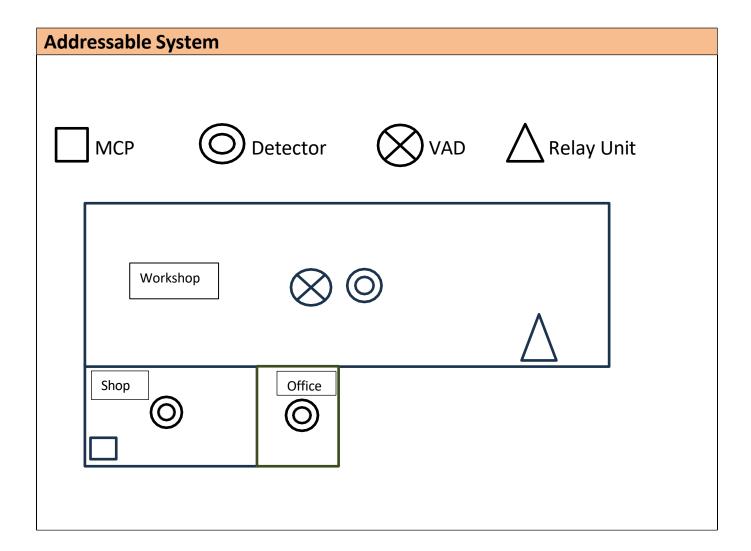
- Install a suitable detector for specific room type.
- Install correct indication unit for additional detection.
- Install a Manual Call Point to system.

	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







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.
- Change programming per specification

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

	commissio	illing C	necki	IST			
Installed and commissioned by:						Date:	
Site address:							
Control panel type:				No. of zones:			
Standard(s) installed to:					No. of loops:		
Mains power		Check	ed satisf	actory			
Iviairis power		Yes	No	N/A	Comments		
Satisfactory continuity of su	pply						
System on a dedicated circu	it						
Satisfactory labelling of supp	oly						
Any residual current protect	tion						
Fire resistant cable used							
Standby power			ed satisf				
		Yes	No	N/A	Comments		
Batteries secured							
Suitable wiring to stand by p	OWOr						
supply	Jowei						
supply	vailable						
supply Quiescent current reading a	vailable						
Supply Quiescent current reading a Alarm current reading availa	vailable able						
supply Quiescent current reading a Alarm current reading availa Battery calculations availabl	vailable able						
supply Quiescent current reading a Alarm current reading availa Battery calculations availabl Rating of charger adequate	vailable able e for full load						
supply Quiescent current reading a Alarm current reading availa Battery calculations availabl Rating of charger adequate Batteries of suitable type Batteries of adequate capace	vailable able e for full load		ed satisf				
Supply Quiescent current reading a Alarm current reading availa Battery calculations availabl Rating of charger adequate Batteries of suitable type Batteries of adequate capace Wiring	vailable able e for full load	Checke	ed satisf	actory N/A	Comments		
supply Quiescent current reading a Alarm current reading availa Battery calculations availabl Rating of charger adequate Batteries of suitable type Batteries of adequate capace	vailable able e for full load		1		Comments		
Supply Quiescent current reading a Alarm current reading availa Battery calculations availabl Rating of charger adequate Batteries of suitable type Batteries of adequate capac Wiring Cables adequately protected	vailable able e for full load iity		1		Comments		
Supply Quiescent current reading a Alarm current reading availa Battery calculations availabl Rating of charger adequate Batteries of suitable type Batteries of adequate capace Wiring Cables adequately protected mechanical damage	vailable able e for full load iity		1		Comments		



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



Type of detectors suitable for risk		
Tested to specification		

Visual and a	امانامىي	a alauma	Checked satisfactory										
visuai and a	luaibie	e alarms	Yes	No	ı	N/A	Com	ments					
Sound level read	dings av	railable											
Minimum of 2 s													
Visual alarm de appropriate)	vices ins	stalled (where											
Ancillary eq	uinme	nt	Checke	ed satis	fact	ory							
Aricinal y eq	uipiiie	:110	Yes	No	N	N/A	Com	ments					
Relays suitably l	housed												
Interfacing corr	ect												
Tested to specif	fication												
Domoto sign	aallina	customs	Checke	ed satis	fact	ory							
Remote sign	nannng	systems	Yes	No	N	N/A	Com	ments					
Remote signalli	ng syste	ms installed											
Custom dos		ation	Checked satisfactory										
System docu	umeni	lation	Yes	No	N	N/A	Comments						
System log bool	k availa	ole											
Power readi	ings aı	nd battery stan	dby ve	rifica	tion)							
PSU Voltage:			Standby battery capacity:						PSU current rating:				
Load test (quiescent curre	ent):		Locatio	Location:			Load test (alarm current):						
Duration:		x quiescent load			+ al	arm lo	oad			=			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		lation oke	F	= Fixed Temp	B = Beam Detection A = Aspir		rating		C = Carbon Monoxide
M = Manual Call Point	O = Optio	cal Smoke	R	= Rate of Rise	F = Flame Detection	VAD = Visua Devid		S =	Multi Sensor
Loop / Zono				Device				Ch	eck
Loop / Zone	No	Туре			Location		Faul	t	Alarm



In this task you must:

- ensure that the zones/devices are displayed on the panel correctly and as per spec
- change programming per specification

Addressable Comn	nissioning	Check	dist				
Installed and						Date:	
commissioned by:						Date.	
Site address:							
						No. of	
Control panel:						zones:	
Standard(s) installed to:						No. of	
		Check	ed satisf	actory		loops:	
Mains power		Yes	No	N/A	Comments		
Continuity of supply satisfac	tory						
System on a dedicated circuit							
Labelling of supply satisfactory							
Any residual current protection							
Fire resisting cable used							
Standby nower		Check	ed satisf	actory			
Standby power		Yes	No	N/A	Comments		
Batteries secured							
Wiring to stand by power supply suitable							
Quiescent current reading available							
Alarm current reading availa	able						
Battery calculations availabl	e						
Rating of charger adequate	for full load						
Batteries of suitable type							
Batteries of adequate capacity							
batteries of adequate capac	rity						
	ity		ed satisf				
Wiring		Checke	ed satisf No	actory N/A	Comments		
					Comments		
Wiring Cables adequately protecte	d from				Comments		



Cables suitably supported		
Cable joints correctly terminated		

Wiring	Checke	ed satisf	actory	
Willing	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 breakglass or resettable elements left on site				
Changed the access level 3 code				
Manual alarm call points		ed satisf		Commonts
-	Yes	No	N/A	Comments
Siting appropriate and to specification				
Mounted at correct height				
Common type throughout building				
Tested to specification				
Detection devices	Checke	ed satisf		
Detection devices	Yes	No	N/A	Comments



Siting appropriate and to specification			
Type of detectors suitable for risk			
Tested to specification			

Visual and aud	ible alarms	Checke	Checked satisfactory							
visuai aiiu auu	ible didi ilis	Yes	No	N/A	Commo	ents				
Sound level reading	gs available									
Minimum of 2 sour	nder circuits									
Visual alarm device appropriate)	s installed (where									
Ancillary equip	ment		ed satisf							
Anciliar y equip	onient	Yes	No	N/A	Commo	ents				
Relays suitably hou	sed									
Interfacing correct										
Tested to specification										
Donata dan dina dia		Checked satisfactory								
Remote signali	ng systems	Yes	No	N/A	Commo	ents				
Remote signaling systems installed										
Custom de sum	antation	Checke	ed satisf	actory						
System docum	entation	Yes	No	N/A	Commo	ents				
System logbook ava	ailable									
Power reading	s and battery stan	dby ve	rificati	ion						
PSU Voltage:		battery	Standby battery capacity:		PSU current rating:		nt rating:			
Load test (quiescent current):		Locatio	-			Load to		ent):		
Durati on:	x quiescent load		+ al	arm 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



Ensure that the device descriptions are added and corresponding with the addresses on the panel as follows:

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

Test instrumentation		
Type of instrument	Serial number	Calibration date



KEYTO	DEVICE TYPE		I = Isolation Smoke	F = Fixed Temp	B = Beam Detection	A = Aspi	irating		C = Carbon Monoxide	
M = Manual		ace	O = Optical Smoke	R = Rate of	F = Flame	VAD=\			S = Multi	
Call Point Loop /	unit		SHIOKE	Rise Device	Detection	Alarm D	Jevice	evice Sensor Check		
Zone	Address		Туре		er to spec / diag	ram)	Faul		Alarm	
20110	71001000		.,,,,,	200000000000000000000000000000000000000	or to speet, and	5,		•	71101111	