

Event Risk Assessment:

Details: Principles of OME Visits to Broadmead Quarry Explosives Demonstration on Monday 14th October, Monday 18th November and Thursday 21st November 2024

Event Description	Field Visit
Department:	School of Applied Computing OME Apprenticeship
Event Location:	Alford Technologies, Broadmead Quarry, Westbury Sub-Mendip
Event Organiser Name	Gareth Collett, Executive Director SHSCA
Numbers of students attending	Each visit shall comprise no more than 14 students
Students with additional needs (please describe)	None
Numbers of staff attending	2
Number of first aiders attending	All staff at Alford's Technologies are trained first aiders.
Start Date:	14 th October 2024, 18 th November 2024, 21 st November 2024
Return Date:	As above
Assessment Approved by (Line Manager):	Yes / ~~No~~

Print name: Gareth Collett

Signed:



Authorised by:



Print name: Kapilan Radhakrishnan

Event Risk Assessment

Ref	Hazard / Task / Activity Area of Concern	Persons at Risk	Existing Controls	Describe Any Further Controls Actions Needed	Actions By Whom	Action By When
1	Vehicular Accident	Students in hire car vehicles provided by their employers. Staff in hire car/personal vehicles provided by UWTSD.	Risk level – LOW. Apprentices have approval for travel from their employers. As such, they are on official duty. UWTSD staff are authorised university drivers	Students to wear seat belts and follow the instructions for hire cars provided by their employing organisation.	Staff/Students	At beginning of activity
2	Broadmead Quarry	Students, Staff (See separate and more detailed RA for Broadmead Quarry, provided for the HSE)	Risk level – LOW. Alfords Technologies is an accredited training site, holding: a HSE Explosive manufacture, storage & usage licence, a Category 5 Firearms licence, a Secure testing facility conforming to National & Local police regulations, ISO9001 Accreditation.	All students are familiar with explosive safety and shall not be handling any dangerous primary explosive material. Under the risk assessment of Broadmead Quarry, students will not be handling detonators	Alfords H&S Staff Staff/students	At beginning of activity

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			All Alford's staff are accredited explosive engineers within the IExpE, which accredits the OME apprenticeship. Students shall be attending lectures on low explosives, high explosives and shall witness their effects on targets. All UWTSD staff and students have passed the IExpE OME Safety Course. The visit coordinator is a Fellow of the IExpE and fully qualified in explosive safety.			
3	General – Trip hazard	Students, Staff	Risk: LOW Broadmead Quarry is a working quarry. However, Alford's Technologies maintains clear unobstructed floor space/walkways in its teaching	Students will be briefed on the safety requirements of attending training in a quarry. This will include the provision of PPE to remain with the instructors at all times.	Alford's H&S Staff Staff/students	At beginning of activity

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			facilities and transport to/from the demolition site is provided.			
4	Defective flooring/uneven flooring .Slips, trips and falls same level, obstructions, unfinished areas - cuts, bruises, muscular skeletal and other injuries, sprains, fractures	Staff, Students Visitors	Risk: LOW Should there be any areas on the site that are undergoing estate works, these shall be included as part of the initial safety brief by Alfords site staff. Staff to be vigilant when walking around the site. Clearly designated footpaths and walkways are to be used. Suitable footwear to be worn by all staff and students.	PPE to be provided by Alfords as and when necessary	Alfords H&S Staff Staff/students	At beginning of activity
5	Electric shock, burns, fire	Staff, Students	Risk: LOW Electrical equipment at Alfords is subject to regular safety inspection and testing (PAT). On the range, no electrical equipment is allowed due to RF hazard. Strict controls are in place for this.	Students shall not be required to plug in or use BAe Systems electrical points. Students shall not be allowed to take mobile phones or other items on to the range	Alfords H&S Staff Student/Staff	Throughout visit

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6	Building damage, trapped persons, inhalation of smoke, personal injuries (burns)	Staff, Students	Risk: LOW Smoking is prohibited on the site. Fire Alarms and warning alarms are regularly tested and serviced by Alford Technologies as part of their explosive licence. Fire Extinguishers are provided throughout buildings and first aid kits are situated at all points of student work. Staff/Students aware of fire/explosion procedures and will be made familiar with fire exits and muster points during initial safety brief by Alford Technologies.	PPE will be provided for handling any explosive material on the site. This is in accordance with HSE regulations, which shall be followed to the letter.	Alfords H&S Staff Student/Staff	To form part of initial site safety brief by BAe Systems
7	Crushing injury, fractures from falling over after being struck.	Staff, Students, Visitors	Risk: LOW All vehicles shall be parked in the visitors carpark, a safe distance away from any structures. Clearly marked safe zones and walkways to be used at all times within Broadmead Quarry.	PPE provided. Students shall be informed of the risks of falling rock from a quarry. They will be required to follow marked safe routes at all times. During any explosive demonstration, alarms will sound and all students shall be physically	Alfords H&S Staff Student/Staff	To form part of initial site safety brief by BAe Systems

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				checked to Alfords staff to ensure they are within the protected sites before detonation events. The facility does not have a licence for explosive demonstrations above 1.5 kg.		
8	Sprains, strains, fractures from falling or slipping on oil or water or tripping over equipment	Staff, Students, Visitors	Risk: LOW Good housekeeping standards maintained through regular monitoring by Alfords Technologies. All areas including fire escape routes/exits must be kept clear of obstructions. Floors must be kept free from oil and swarf. Floors to be regularly degreased. Spillages must be clear immediately and reported to visit organiser.	N/A	Alfords H&S Staff Student/Staff	To form part of initial site safety brief by BAe Systems
9	Fatigue, feeling too cold or hot, facilities to wash, dry and rest	Staff, Students, Visitors	Risk: LOW Heated rooms provided for briefings and working	Students shall be advised of the need to dress for inclement weather and to	Alfords H&S Staff	N/A

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			preparation. Toilets and wash basins available for use which are regularly cleaned and maintained. Locker room/storage area provided. Building maintained at comfortable temperature. Workshop or outside temperatures will not be regulated. Drinking water and refreshments available.	wear stout footwear. Any student not complying with this shall not be allowed to enter the range.	Student/Staff	
10	Personal injury due to unfamiliarity of area/equipment and vehicle movements	Staff, Students	Risk: LOW Clear signage in place 'No access to unauthorised personnel'. Students to be inducted prior to being permitted into facility. Areas to be kept locked and secured when not in use. Staff members to be vigilant and Alfords staff to challenge any unfamiliar personnel	Students shall receive a brief from Alfords staff on all equipment they will be required to use.	Alfords H&S Staff Student/Staff	N/A
11	Exposure to noise - tinnitus, temporary hearing loss, permanent hearing loss	Staff, Students	Risk: LOW Alfords conduct range Noise Assessments in areas where there is excessive noise level. Where noise	Hearing protection provided for all students entering the range	Alfords H&S Staff Student/Staff	N/A

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			levels exceed the upper exposure limit of 85dB, signage is in place and hearing protection mandatory. Task specific risk assessments will identify the need for hearing protection. Hearing protection to be provided and worn.			
12	Safety Errors	Staff, students	Risk: LOW Students have been briefed on raising aspects of safety immediately. As apprentices, they are aware of this requirement within OME	This will be reinforced in the administrative instruction which accompanies the visit	UWTSD GC	Prior to range day in classroom lecture.

Comment: Broadmead Quarry is used by employers on the OME programme for the OME Integrated Degree Apprenticeship End Point Assessment. As such, the facility has passed rigorous inspection by the explosive engineering profession and is suitable for small-scale demonstrations of blast, fragmentation, directed energy and kinetic energy. Alford Technologies risk assessment and standard operating procedures comply with HSE regulation.

Version Control

Author:	Gareth Collett
Department:	School of Applied Computing
Location:	IQ, Kings Road, Swansea
Line Manager:	Dr Kapilan Radhakrishnan
Date:	08/07/2024
Applicable Equipment:	N/A
Associated Risk Assessment(s):	
Version:	1
Review Date:	31/07/2025
Approved by:	Kapilan Radhakrishnan Academic Director SoAC

Reason for latest update	NEW Risk Assessment
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FULL RISK ASSESSMENTS MUST BE COMPLETED FOR ALL VISITS

NOTES:

- (i) This form must be approved by the Head of School before the date of the visit.
- (ii) In the event of any student or member of staff listed below failing to attend for whatever reasons his/her name must be given to the Faculty Secretary.
- (iii) For purposes of Health Insurance the Tutor-in-Charge of the visit must make known to all members participating in the visit, the provisions contained in the relevant Insurance Notes.
- (iv) If travelling overseas, check the Foreign and Commonwealth Office Website www.fco.gov.uk.

The Tutor / Organiser of the proposed Educational Visit must record the names of Students and Staff who have agreed to participate in the Visit / Fieldwork or other Educational Activity.