

# **BULSCA Warwick Competition 2024 Dry SERC**

## **General Information**

**SERC Writers:** Ben Barker and Mia Green

**Time:** Two minutes, to start on SERC Setter's whistle, to end of SERC Setter's whistle.

**Comms:** Live via radio "intercom" attached to a wall in the room.

**Location:** Lecture Theatre S0.21, University of Warwick, CV4 7AL

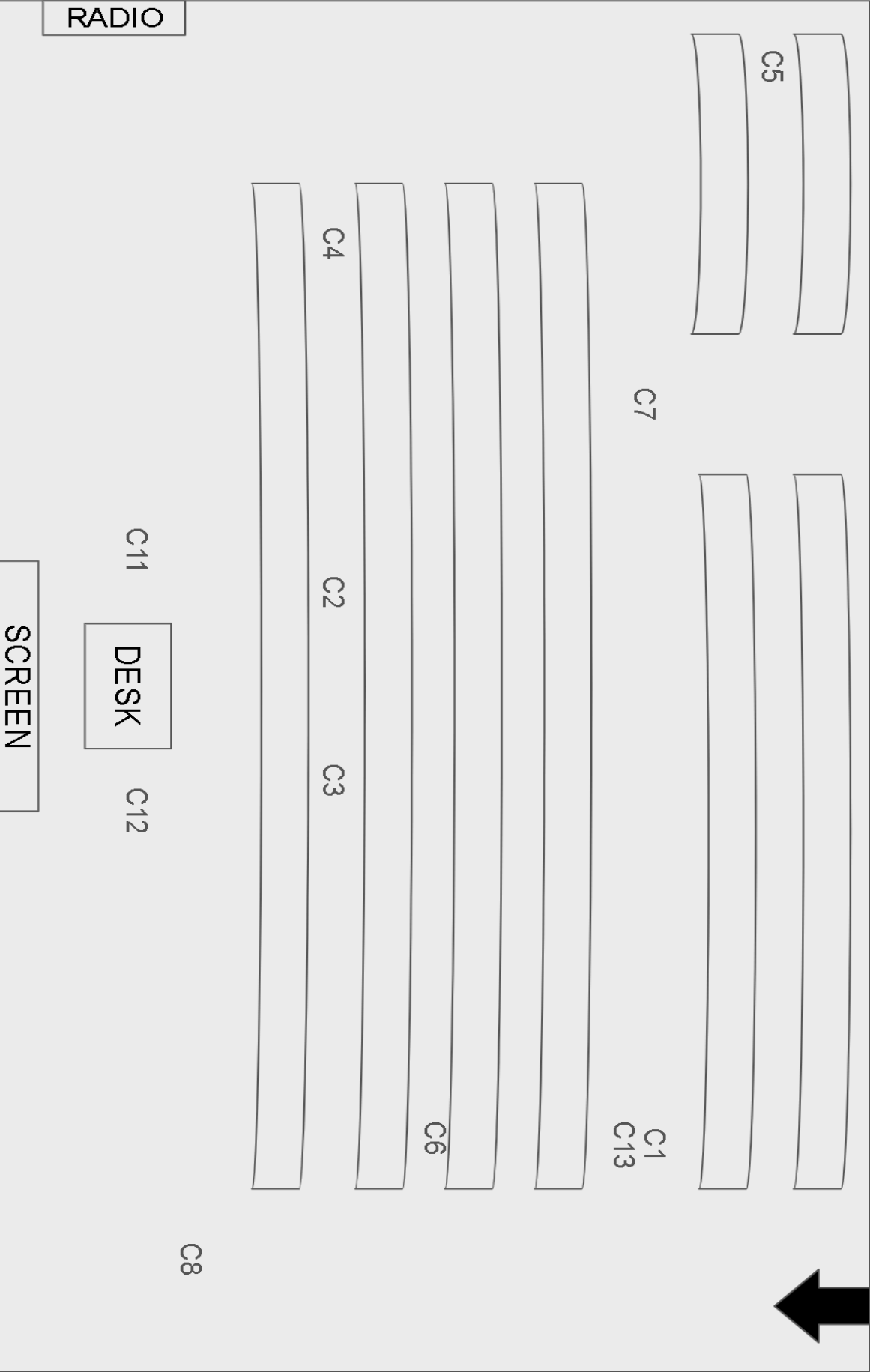
**First Aid Kit:** Full First Aid Kit and Travel First Aid Kit to be brought (neither actually required).

**Props:** 2x High Visibility Jackets, 1x Full First Aid Kit with 2x Pocket Masks, 4x Radio, 3x Dummy Mobile Phones (no battery, no signal, etc), 2x Adult CPR Manikins, 1x Bottle of Lucozade, 1x Empty Bottle of Coca Cola, 1x Blue Inhaler, 1x AED, 1x Epi-pen, 2x CPR Manikin T-Shirts, 2x CPR Manikin Trousers, Fake Blood, Soup to Vomit, Hazard Tape, Normal Tape, Interesting Chemistry-related Slideshow

**Aim:** To test Lifesavers on their prioritisation, problem-solving, and initiative.

**Rules:** All information required to completely treat casualties should be freely given as dictated. Casualties are to be briefed to be forthcoming with answers and officials should not deviate from the SERC brief. Once entering the SERC, competitors are not permitted to leave. Any casualties sent out of the room are to leave and not return until the SERC has concluded.

**General Brief:** A University Open Day for a Chemistry course involved a seemingly harmless experiment; but in a surprising twist, as is usual for a lifesaving competition, this experiment went drastically wrong. The experiment exploded! And consequently caused all manner of medical issues to happen, all at once.



## **Casualties**

### **Casualty 1 - Amy / Adam - Panicking and Fainting - Change faint to unc breathing**

- Will present as a distraught and distressed individual.
- Will be inconsolable regardless of what is said, knows casualty 8
- Will Pass out when cpr begins on cas 8, remains unconscious but breathing throughout
- Has a Dummy Mobile Phone.
- Knows what happened.

### **Casualty 2 - Betty / Bruce - Head Bleed**

- Will present slumped in their chair.
- Will respond in a dazed and confused manner once a lifesaver touches them.
- Has blood on their head.
- Cannot remember who they are. Cannot remember where they are. Cannot remember what happened. Cannot remember the last time they ate. Cannot remember if they have any medical conditions. Cannot remember if they know anyone else present. Answer all with "I can't remember".
- Cannot remember if they have a phone or radio. Cannot remember if they have a First Aid Kit. Cannot remember if they have an inhaler. Cannot remember if they have an epipen. Answer all with "I think so." When prompted further, for location, answer all with "I can't remember".
- Wretches every 15 seconds, but does not regurgitate.
- Can move with assistance, however movements are slow.

### **Casualty 3 - Ciara / Charlie - Arm and Leg Bleed**

- Is screaming in pain and shouting for help. Will not stop at all.
- Has blood on both arms and both legs.
- Will not apply pressure to the wounds without screaming in pain.
- Winces throughout bandaging, exclaiming that the bandages hurt.
- Can move with assistance, however movements are accompanied by intense screaming.
- Has a Bottle of Lucozade, but is unwilling to give it up. But will give up their Bottle of Lucozade to a Lifesaver provided they are told "I'm a trained lifesaver. I'm here to help. It is an emergency situation."
- Knows what happened.
- Knows Casualty 2.

### **Casualty 4 - Denise / Denephew - Diabetic**

- Will present as a slow moving, overly tired, word slurring individual.
- Is suffering from a Hypoglycemic attack.
- Can be treated if given a Bottle of Lucozade and told to drink it. Will respond to the treatment almost immediately. Will not drink from the Bottle of Lucozade

if not told to do so. Will drop the Bottle of Lucozade after 10 seconds of holding it.

- Has a Dummy Mobile Phone.
- Has a Blue Inhaler for Casualty 5, and will openly say they do. But will only give up the Blue Inhaler to a Lifesaver provided they are told "I'm a trained lifesaver. I'm here to help. It is an emergency situation."
- Knows what happened.
- Knows Casualty 5, and is annoyed by their coughing. Will respond aggressively if near to an untreated Casualty 5.

#### **Casualty 5 - Emily / Eduard - Asthmatic -**

- Will present with excessive coughing, struggling to catch their breath.
- Is suffering an asthma attack.
- Asthma can be treated by their Blue Inhaler [Blue is their reactive. Brown is their proactive].
- Will administer their own Blue Inhaler upon being provided it. Will respond to the treatment almost immediately. Will not use the Blue Inhaler if not told to do so. Will drop the Blue Inhaler after 10 seconds of holding it.
- Knows what happened.
- Knows Casualty 4, but does not know they are diabetic.

#### **Casualty 6 - Helen / Harry - Seizure -**

- Will present laid on the floor, face down and unresponsive.
- During breathing check, they will begin to fit. The seizure will last for 15 seconds before stopping. After 10 seconds, a second seizure will ensue, lasting for 15 seconds again, before stopping.
- Will remain unconscious breathing for the remaining duration of the SERC.
- Can be merged with Casualty 7.

#### **Casualty 7 - Isabel / Idris - Campus Security -**

Only arrives after the radio intercom has requested emergency services.

- Has First Aid Kit with two pocket masks.
- Has an AED.
- Knows CPR and will undertake it
- Does not know First Aid.
- Is wearing a High Visibility Jacket.
- Has a radio linked to Casualty 10 and the intercom. Will respond if spoken to through the radio regardless of who is speaking.
- Can be merged with Casualty 10.

**Casualty 8 - Kelly / Kieron - Unconscious Non-Breathing Adult**

- Lecturer
- Was within the blast radius of the experiment gone wrong.
- Will present as an unconscious CPR Manikin in clothing.
- Is covered in cuts and blood.

**Casualty 9 - Laura / Luke - Unconscious Non-Breathing Adult -**

- Was within the blast radius of the experiment gone wrong.
- Will present as an unconscious CPR Manikin in clothing.
- Has an Empty Bottle of Coca-Cola.

**You are a group of four soon-to-be University Students visiting the University of Warwick on an Open Day. You decide to attend a Chemistry Lecture taking place in Lecture Theatre S0.21. Upon approaching the doorway, you hear a loud bang from inside, followed by people screaming. You decide to enter.**

## **Casualties Mark scheme**

### **Casualty 1 - Amy / Adam - Panicking and Unconscious**

- Identification and Assessment -
- Treatment of casualty -
- Aftercare -
- Initial Questioning -

### **Casualty 2 - Betty / Bruce - Head Bleed**

- Identification and assessment -
- Use of Gloves -
- Treatment -
- Aftercare and questioning -

### **Casualty 3 - Ciara / Charlie - Arm and Leg Bleed -**

- Identification and assessment -
- Use of Gloves -
- Treatment -
- Aftercare and questioning -

### **Casualty 4 - Denise / Denephew - Diabetic -**

- Identification and assessment -
- Use of Bottle of Lucozade -
- Aftercare and Questioning -

### **Casualty 5 - Emily / Eduard - Asthmatic -**

- Identification and assessment-
- Initial treatment -
- Use of Inhaler -
- Aftercare and questioning-

### **Casualty 6 - Helen / Harry - Seizure**

- Identification and Assessment -
- Treatment -
- Aftercare and Recovery -

### **Casualty 7 - Isabel / Idris - Campus Security**

- Identification and assessment -
- Use of Casualty -
- Aftercare and Questioning -

**Casualty 8 - Kelly / Kieron - Unconscious Non-Breathing Adult**

- Identification and Assessment -
- Effective breathing check (full 10 seconds) -
- Quality of CPR 30:2 (if performed by campus security, give full marks) -
- Use of pocket mask -

**Casualty 9 - Laura / Luke - Unconscious Non-Breathing Adult -**

- Identification and Assessment -
- Effective breathing check (full 10 seconds) -
- Quality of CPR 30:2 (if performed by campus security, give full marks) -
- Use of pocket mask -

**Overall**

- Effective Prioritisation -
- Effective Control -
- Effective Communication -
- Effective Teamwork -

**Phone**

- Request of emergency services (999) and AED
- Location (lecture theatre S0.21. University of Warwick)
- Panicking who passed out but breathing
- Head bleed
- Arm and leg bleed
- Seizure (2 15 seconds, now breathing)
- Diabetic]
- Asthmatic
- 2 Unconscious not breathing
- Any other relevant info

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## **Casualties Scoring**

### **Casualty 1 - Amy / Adam - Panicking and Unconscious (total 40)**

- Identification and Assessment - 1.0
- Treatment of casualty - 2.0
- Aftercare - 0.5
- Initial Questioning - 0.5

### **Casualty 2 - Betty / Bruce - Head Bleed (total 40)**

- Identification and assessment - 1.0
- Use of Gloves - 0.5
- Treatment - 2.0
- Aftercare and questioning - 0.5

### **Casualty 3 - Ciara / Charlie - Arm and Leg Bleed - (total 30)**

- Identification and assessment - 1.0
- Use of Gloves - 0.5
- Treatment - 1.0
- Aftercare and questioning - 0.5

### **Casualty 4 - Denise / Denephew - Diabetic - (total 40)**

- Identification and assessment - 1.0
- Use of Bottle of Lucozade - 2.0
- Aftercare and Questioning - 1.0

### **Casualty 5 - Emily / Eduard - Asthmatic - (total 50)**

- Identification and assessment- 1.0
- Initial treatment - 1.0
- Use of Inhaler - 2.0
- Aftercare and questioning- 1.0

### **Casualty 6 - Helen / Harry - Seizure (total 50)**

- Identification and Assessment - 1.0
- Treatment - 2.0
- Aftercare and Recovery - 2.0

### **Casualty 7 - Isabel / Idris - Campus Security (total 30)**

- Identification and assessment - 1.0

- Use of Casualty - 1.0
- Aftercare and Questioning - 1.0

### **Casualty 8 - Kelly / Kieron - Unconscious Non-Breathing Adult (Total 50)**

- Identification and Assessment - 1.0
- Effective breathing check (full 10 seconds) - 1.0
- Quality of CPR 30:2 (if performed by campus security, give full marks) - 2.0
- Use of pocket mask - 1.0

### **Casualty 9 - Laura / Luke - Unconscious Non-Breathing Adult - (Total 50)**

- Identification and Assessment - 1.0
- Effective breathing check (full 10 seconds) - 1.0
- Quality of CPR 30:2 (if performed by campus security, give full marks) - 2.0
- Use of pocket mask - 1.0

### **Overall (total 65)**

- Effective Prioritisation - 2.0
- Effective Control - 1.0
- Effective Communication - 1.5
- Effective Teamwork - 2.0

### **Phone (total 45)**

- Request of emergency services (999) and AED - 1.0
- Location (lecture theatre S0.21. University of Warwick) - 1.0
- Panicking who passed out but breathing - 0.25
- Head bleed - 0.25
- Arm and leg bleed - 0.25
- Seizure (2 15 seconds, now breathing) - 0.25
- Diabetic - 0.25
- Asthmatic - 0.25
- 2 Unconscious not breathing - 0.5
- Any other relevant info - 0.5

## Phone script

CS - 'Hello, this is Campus Security, how can i help?'

TEAM - 'Call 999, ambulance aed casualty list' etc

CS - 'Okay will do, do you need assistance from us?'

TEAM - 'Yes'

CS - 'What's your location'

TEAM - ' Lecture theatre S0.21 on warwick campus'

CS - 'Okay, on the way'