

Activity Overview

Students explore health concepts through hands-on investigation of vital signs, patient history, blood typing simulations, and CPR demonstration and practice using training equipment and robotic mannequins. Activities are supervised and use non-invasive, education-only equipment and materials.

Hazard Identification & Risk Controls

Hazard	Risk	Risk Level	Control Measures
Measuring heart rate (pulse)	Minor discomfort or incorrect technique	Low	<ul style="list-style-type: none"> • Clear demonstration provided • Option to stop at any time
Blood pressure wrist cuffs	Discomfort or incorrect use	Low	<ul style="list-style-type: none"> • Staff demonstrate correct placement and use • Short measurement duration
Blood typing activity (simulated)	Skin irritation or hygiene concerns	Low	<ul style="list-style-type: none"> • Education-only kits (no real blood) • No skin contact with reagents • Hand hygiene after activity
Small equipment (toothpicks, plates)	Minor cuts or misuse	Low	<ul style="list-style-type: none"> • Clear instructions provided • Equipment used only as directed • Supervised handling
Clean-up of blood typing materials	Cross-contamination	Low	<ul style="list-style-type: none"> • Dedicated tubs with detergent and water for soaking • Staff oversight during clean-up
CPR practice on mannequin	Physical strain or improper technique	Low	<ul style="list-style-type: none"> • Demonstration before student participation • Short practice intervals • Participation voluntary
Use of robots and tablets (ALEX, ARES)	Trip hazards or equipment damage	Low	<ul style="list-style-type: none"> • Equipment positioned away from walkways • Tablets handled under supervision
Emotional discomfort (medical themes)	Anxiety or discomfort	Low	<ul style="list-style-type: none"> • Content framed in an age-appropriate, supportive way • Students may opt out of activities if needed
Behaviour during practical tasks	Unsafe or inappropriate use of equipment	Medium	<ul style="list-style-type: none"> • Clear expectations set at session start • Active supervision throughout session

Supervision and Training

Staff / Facilitators:

- Sessions facilitated by trained Casey Tech School staff
- Visiting teachers retain responsibility for student behaviour
- First aid facilities available onsite

Emergency Procedures

- Stop activity immediately if an incident occurs
- Provide first aid as required
- Notify school contact and complete incident documentation

Serious Injury or Emergency:

1. Call emergency services (000 in Australia).
2. Administer first aid.
3. Document the incident.

Equipment Safety & Maintenance

- All equipment checked before and after sessions
- Blood typing materials are simulation-only and disposed of or cleaned as per instructions
- Robots, tablets and cuffs cleaned between groups
- Faulty equipment removed from use immediately

Review & Documentation

- After the session, staff to review and log any incidents, near misses, and feedback to improve future risk controls.
- Review risk assessment annually or after any incident.