

Appendix 1 – Detailed Specification of Requirements per Lot

References to specific brands or models are included for descriptive purposes only and shall be read as 'or equivalent'. Equivalent products must meet or exceed the stated minimum requirements.

Lot 1 is divided into four sections:

- High Fidelity Clinical Simulation Equipment,
- Mid-Fidelity Manikins and Clinical Skills Trainers,
- Clinical Environment and Ward Simulation Equipment,
- Simulation AV, Capture and Assessment Systems.

Lot 1 – Design, Supply, Installation and Commissioning of a Turnkey Healthcare Simulation Solution for the Cork College of FET Clinical Simulation and Integrated Assessment Network

• High Fidelity Clinical Simulation Equipment

This includes adult, paediatric, maternity, auscultation, pre-hospital together with associated software, monitors, controllers, accessories, consumables, replacement parts and manufacturer-approved support.

High Fidelity Clinical Simulation Equipment includes the supply, delivery, installation, commissioning, training, warranty, support and maintenance of high-fidelity and specialist clinical simulation equipment for advanced healthcare, nursing, maternity, paediatric, pre-hospital, emergency care and complex scenario-based education. This may include, but is not limited to, the following equipment and associated accessories:

- High-fidelity adult patient simulators suitable for advanced nursing, acute care, emergency response and clinical deterioration scenarios.
- High-fidelity paediatric patient simulators suitable for paediatric assessment, emergency care and age-appropriate clinical simulation.
- Maternity and birthing simulators suitable for normal birth, complex birth, obstetric emergency and maternal assessment scenarios.
- Auscultation simulators or trainers capable of supporting teaching and assessment of normal and abnormal heart, lung and bowel sounds.
- Pre-hospital and ambulance simulation equipment to support emergency response, patient movement, scene management and safe clinical decision-making.
- Simulated patient monitors, instructor controls, tablets, laptops, control software, scenario software and related operating systems required for full functionality.
- Associated consumables, replacement parts, skins, batteries, chargers, carrying cases, storage items, accessories and operational documentation required for ongoing use.
- Manufacturer-approved support, maintenance, user training, technical handover, warranty and lifecycle support for all proposed equipment.

Equipment	Quantity
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Cork College of FET - Morrison's Island Campus	
High Fidelity Adult Patient Simulator	1
High Fidelity Paediatric Patient Simulator	1
Obstetric Birthing Simulator (light)	1
Obstetric Birthing Simulator (dark)	1
SAM4 Auscultation Manikin (or equivalent)	1
Tenderers may propose equivalent or alternative products where they meet or exceed the stated functional, educational and technical requirements. All equipment must be durable, cleanable, safe, suitable for repeated learner use and supplied with all accessories, consumables, documentation, training, warranty and support required for full operational use.	

High Fidelity Adult Patient Simulator
The High-Fidelity Adult Patient Simulator must be suitable for healthcare education, clinical skills training, scenario-based learning and learner assessment. Performance Specification – HF-01 High-Fidelity Adult Patient Simulator The proposed solution shall provide a realistic, physiology-driven simulation environment suitable for healthcare education, clinical skills training and competency-based assessment across a range of healthcare disciplines. The simulator shall be a current production model supported by the manufacturer and designed for frequent educational use. 2. Minimum Performance Specification The proposed simulator shall, as a minimum, provide the following functional capability. 2.1 General The simulator shall: • represent a full-body adult patient suitable for realistic clinical simulation; • operate wirelessly using rechargeable battery power; • support instructor-controlled and physiology-driven simulation; • be suitable for use within simulation suites, classrooms and in-situ clinical environments; • include all hardware, software and licences required for normal operation. 2.2 Clinical Capability The simulator shall support the teaching, learning and assessment of adult patient care including, but not limited to:

- patient assessment;
- airway management;
- respiratory assessment and intervention;
- cardiovascular assessment and intervention;
- neurological assessment;
- cardiopulmonary resuscitation;
- vascular access and fluid therapy;
- common adult nursing procedures;
- emergency and acute-care interventions.

The simulator shall reproduce clinically appropriate physiological responses to learner actions, instructor interventions and scenario progression.

2.3 Patient Monitoring

The proposed solution shall include, or integrate with, a simulated patient monitoring system capable of displaying clinically appropriate physiological parameters relevant to the simulated patient condition which can be updated/operated on site or remotely as part of the network concept.

2.4 Instructor Control

The simulator shall include instructor software enabling:

- scenario creation and management;
- real-time modification of patient physiology;
- instructor control during simulation;
- event recording;
- local control or control from another location
- learner debriefing and review.

2.5 System Integration

The proposed solution shall integrate with the simulation recording, assessment and debrief platform specified elsewhere within this tender and its network concept.

Tenderers shall identify any software, interfaces or accessories required to achieve full interoperability and they shall be priced as part of the proposal.

3. Included Supply

The tendered solution shall include all components necessary for immediate operational use including, where applicable:

simulator;
instructor control system;
simulated patient monitor;
batteries and charging equipment;
software licences;

transport and storage equipment;
commissioning consumables;
manufacturer documentation.

4. Installation and Support

The successful tenderer shall provide:

delivery and installation; commissioning and operational testing; configuration and software setup; Train-the-Trainer programme; user documentation; technical documentation; minimum three-year warranty; technical support and software updates during the warranty period.

5. Compliance

Tenderers shall complete the accompanying Compliance Matrix demonstrating compliance with each section of this specification.

Where an equivalent solution is proposed, the tenderer shall provide sufficient manufacturer's technical literature to enable the Contracting Authority to verify compliance.

6. Enhanced Capability

The minimum performance specification represents the Contracting Authority's baseline operational requirement.

Tenderers may offer functionality exceeding these minimum requirements. Where additional capability provides demonstrable educational, clinical, operational or lifecycle benefit, it may be considered under the published quality award criteria. Additional functionality shall not compensate for failure to meet any minimum requirement.

Tenderers should confirm the make/model, technical features, included and optional modules, software/licensing requirements, accessories, consumables, warranty, maintenance, support response times and compatibility with AV capture, recording or assessment systems.

High-Fidelity Paediatric Simulator

The **High-Fidelity Paediatric Patient Simulator** should support realistic, physiology-driven simulation for paediatric assessment, emergency care, nursing education and interdisciplinary clinical simulation to facilitate learner assessment and debriefing.

Key requirements include Minimum Performance Capability

The proposed simulator shall, as a minimum:

General

- Represent an anatomically realistic paediatric patient suitable for repeated educational use.
- Operate wirelessly using rechargeable battery power.

- Support instructor-controlled and physiology-driven simulation.
- Be suitable for classroom, simulation suite and in-situ clinical training.
- Include all hardware, software, licences and accessories necessary for normal operation.
- Clinical Capability

The simulator shall support the teaching, learning and assessment of paediatric patient care including:

- primary and secondary paediatric assessment;
- airway management;
- respiratory assessment and intervention;
- cardiovascular assessment and intervention;
- neurological assessment;
- paediatric resuscitation;
- vascular access and fluid therapy;
- common paediatric nursing procedures;
- emergency and acute-care interventions.

The simulator shall reproduce clinically appropriate physiological responses to learner interventions and instructor-controlled scenario progression.

Patient Assessment

The simulator shall provide realistic physical findings appropriate to paediatric assessment, including:

respiratory signs; cardiovascular findings; neurological findings; audible clinical sounds; palpable clinical findings; visual indicators of patient condition.

Patient Monitoring

The proposed solution shall include, or integrate with, a simulated patient monitoring system capable of displaying clinically relevant physiological parameters appropriate to the simulated patient condition.

Instructor System

The simulator shall include instructor software enabling:

- scenario creation and management;
- real-time modification of patient physiology;
- instructor control during simulation;
- event recording;
- learner debriefing.
- System Integration

The proposed simulator shall integrate with the simulation recording, assessment and debrief platform specified elsewhere within this tender and its network concept.

3. Included Supply

The tendered solution shall include all components necessary for immediate operational use, including:

simulator;
instructor control system;
simulated patient monitor;
rechargeable batteries and chargers;
software licences;
transport and storage equipment;
commissioning;
Train-the-Trainer programme ;
User documentation ;
minimum three-year manufacturer's warranty.

4. Compliance

Tenderers shall complete the accompanying Compliance Matrix demonstrating how their proposed solution meets or exceeds each element of this specification.

Where equivalent functionality is proposed, supporting manufacturer's technical literature shall be provided to verify compliance.

- Realistic paediatric body form with appropriate anatomical landmarks.
- Support for instructor-led scenarios, learner practice and competency assessment.
- Paediatric airway, breathing, pulse, blood pressure and vital signs functionality.
- Visible chest rise, variable respiratory rate and appropriate physiological sounds.
- Ability to simulate clinical deterioration and response to learner intervention.
- ECG rhythm and patient monitor display functionality, where applicable.
- Scenario programming, playback and real-time instructor control.
- Voice/audio functionality for child and family communication scenarios, where available.
- Debriefing support and compatibility with AV capture/assessment systems, where applicable that aligns with the network concept on onsite operation or operation from a remote site.
- Rechargeable battery or mains power, including all required chargers and accessories.
- Durable, cleanable surfaces suitable for regular use in education settings.
- All required software, licences, controllers, manuals, accessories, consumables and start-up materials.
- Delivery, installation, commissioning, testing, handover and staff training.
- Warranty, technical support, maintenance options, spare parts and consumables availability.

Tenderers should confirm the make/model, technical specifications, included and optional features, software/licensing requirements, accessories, consumables, warranty, maintenance, support response times and compatibility with AV capture, recording or assessment systems.

Obstetric Birthing Simulator (light & dark)

The **Obstetric Birthing Simulator, light and dark skin tone models**, should support maternity care education, obstetric skills training, clinical simulation, learner practice, assessment and debriefing. The simulator shall be suitable for repeated educational use and support both individual skills development and multidisciplinary team-based simulation.

Key requirements include Minimum Performance Capability

General

The simulator shall:

- represent the anatomical structures associated with labour and childbirth;
- be suitable for classroom, simulation suite and hybrid simulation delivery;
- include all hardware, accessories and consumables necessary for normal operation.

Clinical Capability

The simulator shall support the teaching and assessment of:

- normal vaginal delivery;
- assisted vaginal delivery;
- breech delivery;
- shoulder dystocia management;
- foetal positioning and presentation;
- labour assessment and progression;
- placental delivery;
- umbilical cord complications;
- maternal assessment during labour;
- obstetric emergency management.

Obstetric Skills

The simulator shall enable learners to practise recognised obstetric examination techniques and delivery manoeuvres appropriate to maternity education, together with realistic manipulation of foetal position during labour and delivery.

The simulator shall provide anatomically realistic maternal and foetal landmarks to support clinical teaching.

Educational Functionality

The proposed solution shall support:

- instructor-led demonstration;
- practical skills training;
- competency-based assessment;
- team-based simulation;
- communication and human factors training.

Expandability

The proposed simulator shall either include or be capable of future expansion through manufacturer-supported modules, to support additional obstetric and maternity training scenarios.

Included Supply

The tendered solution shall include all equipment necessary for immediate operational use, including:

- birthing simulator;
- foetal model(s);
- placenta and umbilical cord;
- all required accessories;
- transport/storage solution;
- installation and commissioning;
- Train-the-Trainer programme;
- user documentation;
- minimum three-year warranty.

Where equivalent functionality is proposed, manufacturer's technical documentation shall be provided to verify compliance.

Enhanced Capability

Tenderers may identify additional functionality that exceeds the minimum performance specification. Features such as advanced obstetric emergency simulation, digital learning tools, force monitoring, augmented reality, enhanced hybrid simulation capability or further modular expansion may be evaluated under the published quality award criteria where they provide demonstrable educational and operational benefit.

Tenderers should confirm the make/model, skin tone options, specifications, included components, accessories, consumables, optional modules, cleaning and storage requirements, warranty, spare parts and support arrangements.

SAM4 Auscultation Manikin (or equivalent)

The **SAM4 Auscultation Manikin, or equivalent**, should support clinical assessment skills training, auscultation practice, scenario-based learning and competency assessment in healthcare education settings.

Key requirements include:

- Adult torso/manikin format suitable for auscultation training.
- Realistic anatomical landmarks for correct stethoscope placement.
- Heart, lung, bowel and other relevant physiological sound libraries.
- Normal and abnormal sound options for teaching common clinical presentations.

- Multiple auscultation points across the chest, back and abdomen, where applicable.
- Instructor-led sound selection/control for teaching and assessment.
- Compatibility with standard or supplied electronic training stethoscopes.
- Suitable for individual, small-group and classroom-based use.
- Durable, cleanable and portable design for regular education use.
- All software, licences, controllers, stethoscopes, cables, batteries, manuals and accessories included.
- Delivery, set-up, commissioning, testing, handover and staff training.
- Warranty, technical support, maintenance options, spare parts and consumables availability.

Tenderers should confirm the make/model, technical specifications, sound library content, auscultation points, control method, stethoscope/controller arrangements, licence requirements, accessories, cleaning/storage requirements, warranty, maintenance, spare parts and support response times.

Lot 1 – Design, Supply, Installation and Commissioning of a Turnkey Healthcare Simulation Solution for the Cork College of FET Clinical Simulation and Integrated Assessment Network

• Mid-Fidelity Manikins and Clinical Skills Trainers

This includes nursing manikins, CPR manikins, airway trainers, catheterisation trainers, IV training arms, NG feeding trainers, wound care models, geriatric simulation kits, anatomical skills modules, accessories, consumables and spare parts.

This covers the supply, delivery, commissioning, training, warranty, support and maintenance of mid-fidelity manikins, nursing care simulators, task trainers and clinical skills training equipment for practical healthcare teaching, repeated skills practice and competency assessment across the Cork College of FET Clinical Simulation and Integrated Assessment Network. This lot may include, but is not limited to:

- Mid-fidelity adult nursing manikins suitable for patient care, clinical assessment, nursing skills, healthcare support and community care training.
- Nursing care manikins suitable for personal care, hygiene care, positioning, moving and handling, basic observations, catheterisation, wound care and injection practice.
- Adult and infant CPR manikins suitable for basic life support, compression and ventilation training, with feedback functionality where available.
- Airway management trainers suitable for airway assessment, ventilation, intubation practice and suctioning skills.
- NG feeding trainers suitable for nasogastric tube insertion, feeding, medication administration and related care skills.
- Male and female catheterisation trainers or simulators suitable for urinary catheter insertion, care, fluid return and repeated practice.

- IV training arms suitable for venepuncture, cannulation, injection and IV access skills.
- Injection trainers and anatomical task trainers for intramuscular, subcutaneous and related clinical skills practice.
- Wound care models, staged wound feet, pressure injury models and replacement wound modules for assessment and dressing practice.
- Geriatric simulation kits and age-related care training aids suitable for supporting empathy, mobility, dexterity and sensory awareness training.
- Anatomical skills modules and replacement parts including skins, pads, tubing, inserts, fluids and consumables required for repeated use.
- Storage, carrying cases, protective packaging and accessories required for safe use, movement and storage across teaching locations.
- User manuals, cleaning guidance, maintenance instructions, staff training, warranty, spare parts and lifecycle support.

Tenderers may propose equivalent or alternative products where they meet or exceed the stated functional, educational and technical requirements. All equipment must be durable, cleanable, safe, suitable for repeated learner use and supplied with all accessories, consumables, documentation, training, warranty and support required for full operational use.

Equipment	Quantity
Cork College of FET - Morrison's Island Campus	
Mid-Fidelity Adult Healthcare Simulation Manikin	2
Geriatric Kit (Medium) for Mid-Fidelity Adult Healthcare Simulation Manikin	1
Geriatric Kit (Dark) for Mid-Fidelity Adult Healthcare Simulation Manikin	1
Male Genitalia Kit (Medium) for Mid-Fidelity Adult Healthcare Simulation Manikin	1
Male Genitalia Kit (Dark) for Mid-Fidelity Adult Healthcare Simulation Manikin	1
Airway Management Trainers	4
NG Feeding Trainers	2
Catheterisation Simulators	4
Peripheral Intravenous (IV) Training Arms	8

Appendix 1 – Detailed Specification of Requirements per Lot

Brayden Adult CPR Manikins (or equivalent)	10
Brayden Baby CPR Manikins (or equivalent)	2
Wound Assess Care Kit- Mid-Fidelity Adult Healthcare Simulation Manikin as specified elsewhere in this document.	1
Staged Wound Feet Set-- Mid-Fidelity Adult Healthcare Simulation Manikin as specified elsewhere in this document.	3
Cork College of FET – Mallow Campus	
Mid-Fidelity Adult Healthcare Simulation Manikin - Dark	1
Airway Management Trainers	2
NG Feeding Trainers	1
Catheterisation Simulators	2
Peripheral Intravenous (IV) Training Arms	5
Brayden Adult CPR Manikins (or equivalent)	6
Brayden Baby CPR Manikins (or equivalent)	1
Wound Assess Care Kit- Mid-Fidelity Adult Healthcare Simulation Manikin as specified elsewhere in this document.	1
Staged Wound Feet Set-- Mid-Fidelity Adult Healthcare Simulation Manikin as specified elsewhere in this document.	1
Cork College of FET – Kinsale Campus	
Mid-Fidelity Adult Healthcare Simulation Manikin - Dark	1
Airway Management Trainers	1
NG Feeding Trainers	1
Catheterisation Simulators	1
Peripheral Intravenous (IV) Training Arms	1

Brayden Adult CPR Manikins (or equivalent)	2
Cork College of FET – West Cork Campus	
Airway Management Trainers	1
NG Feeding Trainers	1
Catheterisation Simulators	1
Peripheral Intravenous (IV) Training Arms	1
Brayden Adult CPR Manikins (or equivalent)	2
Tenderers may propose equivalent or alternative products where they meet or exceed the stated functional, educational and technical requirements. All equipment must be durable, cleanable, safe, suitable for repeated learner use and supplied with all accessories, consumables, documentation, training, warranty and support required for full operational use.	

Mid-Fidelity Adult Healthcare Simulation Manikin
The Contracting Authority requires the supply, delivery, installation, commissioning, training and support of a Mid-Fidelity Adult Healthcare Simulation Manikin to support competency-based nursing education, simulation-based learning and structured clinical assessment within the Clinical Simulation and Integrated Assessment Network. Minimum Performance Specification The proposed solution shall, as a minimum: General • Be an anatomically realistic adult, computer-controlled, mid-fidelity healthcare simulation manikin suitable for repeated educational use. • Be available or configurable to represent a diverse patient population, including differing gender presentation, age profile and skin tone. • Operate wirelessly during normal simulation activities both from on site and from remote location, • Include all hardware, software, licences and accessories necessary for immediate operational use. • Integrated Nursing Simulation The simulator shall: • Support the delivery of both procedural nursing skills and integrated clinical simulation. • Enable learners to undertake holistic patient assessment across multiple physiological systems within a single simulation scenario. • Support instructor-controlled simulation scenarios where patient presentation and clinical findings may be modified throughout the learning activity.

- Support the teaching and assessment of clinical reasoning, communication, prioritisation of care and recognition of patient deterioration.
- Support competency-based assessment and structured debriefing.

Clinical Capability

The simulator shall support, as a minimum:

- Adult airway management and ventilation.
- CPR in accordance with current resuscitation guidelines.
- Cardiac, respiratory and gastrointestinal assessment.
- Physiological monitoring including ECG, blood pressure, pulse, respiration, oxygen saturation and temperature.
- Peripheral and central vascular access.
- Medication administration.
- Urinary catheterisation.
- Enteral feeding.
- Wound assessment and care.
- Tracheostomy care and suctioning.
- Patient positioning and routine nursing procedures.

Interoperability

The simulator shall be capable of integration with the Clinical Simulation Recording, Assessment and Debrief Platform specified elsewhere within this Contract, supporting synchronised scenario management, recording, learner assessment and debriefing.

Included Supply

The proposed solution shall include:

- Installation and commissioning.
- Train-the-Trainer education.
- Instructor software and control device.
- Patient monitor solution.
- All software licences required for operation.
- User documentation.
- Minimum three-year manufacturer's warranty.
- Software updates during the warranty period.

Tenderers should confirm the make/model, technical specifications, skin tone or representation options, included and optional features, software/licensing requirements, accessories, consumables, cleaning/storage requirements, warranty, maintenance, spare parts, support response times and compatibility with AV capture/assessment systems.

Geriatric Kit

The **Geriatric Kit, medium and dark skin tone models, for usage with the Mid-Fidelity Adult Healthcare Simulation Manikin**, should support older person care education, empathy-based learning, clinical skills practice, learner assessment and scenario-based simulation.

Key requirements include:

- Suitable for healthcare education and older person care training.
- Available in medium and dark skin tone options, or equivalent inclusive representation.
- Wearable components or simulation aids to replicate age-related physical limitations.
- Simulation of reduced mobility, restricted movement, stiffness and reduced dexterity.
- Sensory limitation components such as reduced vision and/or hearing, where applicable.
- Components to demonstrate frailty, balance, fatigue, grip strength, tremor, gait and posture changes.
- Suitable for classroom, clinical skills, ward simulation and practical assessment use.
- Supports teaching on moving and handling, falls prevention, dignity, consent, communication and person-centred care.
- Durable, cleanable, reusable and adjustable where applicable.
- Includes carry case/storage, user guides, cleaning guidance, accessories, replacement parts and consumables.
- Delivery, set-up, testing, handover and staff guidance/training.
- Warranty, technical support, maintenance options and spare/replacement parts availability.

Tenderers should confirm the make/model, skin tone options, components included, sizing/fit range, limitations simulated, cleaning/storage requirements, accessories, consumables, warranty, spare parts and support arrangements.

Male Genitalia Kit

The **Male Genitalia Kit, medium and dark skin tone models, for usage with the Mid-Fidelity Adult Healthcare Simulation Manikin**, should support healthcare education, clinical skills training, learner practice and competency assessment.

Key requirements include:

- Suitable for clinical skills teaching and supervised learner practice.
- Available in medium and dark skin tone options, or equivalent inclusive representation.
- Realistic external male anatomy with appropriate anatomical landmarks.
- Suitable for teaching hygiene care, continence care, catheterisation preparation, urinary care, dignity, consent and communication.
- Compatible with relevant adult care manikins or task trainers, where applicable.
- Durable, cleanable, reusable materials with realistic tactile feel.
- Secure attachment or positioning method, where applicable.
- Suitable for individual, small-group and classroom-based teaching.
- Includes required connectors, inserts, replacement parts, consumables, cleaning materials, user guides and storage.

- Delivery, set-up, testing, handover and staff guidance/training.
- Warranty, technical support, maintenance options and spare/replacement parts availability.

Tenderers should confirm the make/model, skin tone options, manikin/task trainer compatibility, included components, accessories, consumables, cleaning/storage requirements, warranty, spare parts and support arrangements.

Airway Management Trainers

The **Airway Management Trainers** should support healthcare education, emergency care training, clinical skills practice, learner assessment and simulation-based teaching.

Key requirements include:

- Realistic head, neck and upper airway anatomy.
- Anatomical landmarks for airway positioning, opening and assessment.
- Support for basic airway manoeuvres such as head tilt, chin lift and jaw thrust, where applicable.
- Bag-valve-mask ventilation training with visible chest rise or feedback, where applicable.
- Compatibility with airway adjuncts such as oropharyngeal and nasopharyngeal airways, where applicable.
- Support for supraglottic airway device training and endotracheal intubation practice, where applicable.
- Realistic mouth, tongue, teeth, airway and lung/ventilation response.
- Ability to demonstrate common airway difficulties or incorrect placement, where applicable.
- Durable, cleanable, reusable and portable design suitable for classroom, clinical skills and assessment use.
- Includes required lungs, airways, consumables, lubricants, cleaning materials, storage/carry case, user guides and manuals.
- Delivery, set-up, testing, handover and staff guidance/training.
- Warranty, technical support, maintenance options and spare/replacement parts availability.

Tenderers should confirm the make/model, technical specifications, airway procedures supported, included components, compatibility with airway devices, consumables, replacement parts, cleaning/storage requirements, warranty, spare parts and support arrangements.

NG Feeding Trainers

The **NG Feeding Trainers** should support healthcare education, nursing care training, learner practice and competency assessment.

Key requirements include:

- Realistic head, neck, nasal, oral, oesophageal and gastric anatomy.
- Anatomical landmarks for safe nasogastric tube insertion and positioning.

- Ability to practise NG tube insertion through the nasal passage.
- Support for correct tube advancement into the stomach, where applicable.
- Ability to demonstrate or identify incorrect placement, where applicable.
- Placement checking practice using appropriate training methods.
- Simulated feeding, flushing, aspiration or drainage practice, where applicable.
- Compatibility with standard NG tubes, syringes and feeding accessories, where applicable.
- Durable, cleanable, reusable and portable design for classroom, clinical skills and assessment use.
- Includes tubing, reservoirs, stomach bags, replacement parts, consumables, lubricants, cleaning materials, storage/carry case, guides and manuals.
- Delivery, set-up, testing, handover and staff guidance/training.
- Warranty, technical support, maintenance options and spare/replacement parts availability.

Tenderers should confirm the make/model, technical specifications, procedures supported, included components, compatibility with NG tubes/accessories, consumables, replacement parts, cleaning/storage requirements, warranty and support arrangements.

Catheterisation Simulators

The **Catheterisation Simulators** should support healthcare education, nursing care training, clinical skills practice, learner assessment and simulation-based teaching.

Key requirements include:

- Male and/or female catheterisation simulator suitable for clinical skills training.
- Realistic anatomical representation with appropriate landmarks.
- Functionality for urinary catheter insertion, positioning and related care.
- Supports aseptic technique, patient preparation, communication, dignity, consent and person-centred care.
- Demonstrates urine return or simulated fluid flow, where applicable.
- Compatible with standard training catheters, syringes, lubricants and drainage accessories.
- Durable, cleanable, reusable materials with realistic tactile feel.
- Suitable for individual, small-group and classroom-based instruction.
- Portable or easily repositioned design.
- Secure positioning or attachment for use on a bed, trolley, table or compatible manikin, where applicable.
- Includes inserts, tubing, reservoirs, catheters, syringes, drainage bags, lubricants, cleaning materials, consumables, guides and storage.
- Delivery, set-up, testing, handover and staff guidance/training.
- Warranty, technical support, maintenance options and spare/replacement parts availability.

Tenderers should confirm the make/model, male/female model options, procedures supported, included components, accessory compatibility, consumables, replacement parts, cleaning/storage requirements, warranty and support arrangements.

Peripheral Intravenous (IV) Training Arms

The **Peripheral Intravenous (IV) Training Arms** should support healthcare education, nursing care training, clinical skills practice, learner assessment and simulation-based teaching.

Key requirements include:

- Adult IV training arm suitable for venepuncture, cannulation and IV access practice.
- Realistic arm anatomy with anatomical landmarks and vein pathways.
- Palpable and/or visible veins for supervised learner practice.
- Replaceable skin and vein components for repeated use.
- Simulated blood flashback or fluid return, where applicable.
- Compatibility with standard training needles, cannulas, syringes, IV giving sets and accessories.
- Supports site selection, skin preparation, cannulation, venepuncture, securing devices, flushing and basic IV care.
- Durable, cleanable, reusable materials with realistic tactile feel.
- Portable design suitable for classroom, clinical skills and assessment use.
- Secure positioning for table, trolley, bed or compatible manikin use, where applicable.
- Includes tubing, reservoirs, simulated blood/fluid, replacement skins/veins, syringes, cannulas, consumables, cleaning materials, guides and storage.
- Delivery, set-up, testing, handover and staff guidance/training.
- Warranty, technical support, maintenance options and spare/replacement parts availability.

Tenderers should confirm the make/model, procedures supported, included components, IV accessory compatibility, consumables, replacement parts, cleaning/storage requirements, warranty and support arrangements.

Brayden Adult / Brayden Baby CPR Manikins, (or equivalent)

The **Brayden Adult and Brayden Baby CPR Manikins, or equivalent**, should support first aid, basic life support, emergency response training, learner practice and competency assessment.

Key requirements include:

- Adult and baby/infant CPR manikins suitable for healthcare and emergency response training.
- Realistic anatomical features for correct CPR positioning and technique.
- Support for chest compressions, airway opening and rescue breathing, where applicable.

- Real-time feedback on compression depth, rate and recoil, where applicable.
- Clear feedback mechanism for instructors and learners.
- Realistic chest resistance and compression response for adult and infant CPR practice.
- Durable, cleanable and reusable construction for regular education use.
- Replaceable lungs, face shields, airways, skins or hygiene components, where applicable.
- Portable design suitable for classroom, clinical skills and simulation settings.
- Suitable for instructor-led demonstration, learner practice and assessment.
- Includes accessories, batteries/power supplies, feedback devices or apps, carry bags, hygiene consumables, replacement parts, cleaning materials, user guides and manuals.
- Delivery, set-up, testing, handover and staff guidance/training.
- Warranty, technical support, maintenance options and spare/replacement parts availability.

Tenderers should confirm the make/model, adult and baby/infant options, CPR feedback functionality, power or battery requirements, included components, hygiene consumables, cleaning/storage requirements, warranty and support arrangements.

Wound Assess Care Kit- Mid-Fidelity Adult Healthcare Simulation Manikin

The **Wound Assess Care Kit for Mid-Fidelity Adult Healthcare Simulation Manikin**, should support healthcare education, nursing care training, clinical skills practice, learner assessment and simulation-based teaching.

Key requirements include:

- Realistic anatomical model suitable for wound assessment and dressing practice.
- Range of wound types to support acute and chronic wound care training, where applicable.
- Supports assessment of wound appearance, size, depth, tissue type, exudate, infection indicators and healing progression.
- Suitable for practising wound cleansing, dressing application, bandaging and related care procedures.
- Compatible with standard training dressings, bandages and cleansing materials, where applicable.
- Durable, cleanable, reusable materials with realistic visual and tactile features.
- Suitable for individual, small-group and classroom-based teaching.
- Portable or easily repositioned for use in clinical skills and simulation spaces.
- Includes wound inserts/pads, replacement parts, consumables, cleaning materials, user guides, manuals and storage.
- Delivery, set-up, testing, handover and staff guidance/training.
- Warranty, technical support, maintenance options and spare/replacement parts availability.

Tenderers should confirm the make/model, wound types included, procedures supported, components, accessory compatibility, consumables, replacement parts, cleaning/storage requirements, warranty and support arrangements.

Staged Wound Feet Set- Mid-Fidelity Adult Healthcare Simulation Manikin

The **Staged Wound Feet Set- Mid-Fidelity Adult Healthcare Simulation Manikin** should support healthcare education, wound assessment training, nursing care practice, learner assessment and simulation-based teaching.

Key requirements include:

- Realistic foot/lower limb wound care training models.
- Range of staged wound presentations for wound classification and pressure injury staging.
- Ability to demonstrate acute and chronic wounds, pressure injuries, diabetic foot ulcers, vascular wounds and other relevant wound types, where applicable.
- Realistic visual and tactile features for assessing wound appearance, size, depth, tissue type, surrounding skin condition, exudate, infection indicators and healing progression.
- Suitable for practising wound cleansing, dressing application, bandaging, pressure area care and related clinical care.
- Compatible with standard training dressings, bandages, cleansing products and wound care teaching materials.
- Durable, cleanable, reusable and portable design for classroom, clinical skills and simulation use.
- Includes inserts, wound pads, replacement parts, consumables, cleaning materials, user guides, manuals and storage.
- Delivery, set-up, testing, handover and staff guidance/training.
- Warranty, technical support, maintenance options and spare/replacement parts availability.

Tenderers should confirm the make/model, wound stages and types included, anatomical features, procedures supported, components, accessory compatibility, consumables, replacement parts, cleaning/storage requirements, warranty and support arrangements.

Lot 1 – Design, Supply, Installation and Commissioning of a Turnkey Healthcare Simulation Solution for the Cork College of FET Clinical Simulation and Integrated Assessment Network

- **Clinical Environment and Ward Simulation Equipment**

This includes hospital bed suites, simulated headwalls, emergency crash carts, clinical storage, manikin racking, ward fit-out items, clinical furniture and associated supporting equipment required for simulated care environments across the network.

This covers the supply, delivery, installation, commissioning, training, warranty, support and maintenance of equipment required to create realistic clinical, ward, community care and assessment environments across the Cork College of FET Clinical Simulation and Integrated Assessment Network.

This lot may include, but is not limited to:

- Hospital bed suites must be suitable for healthcare teaching, patient care simulation, moving and handling practice, infection prevention teaching and competency assessment.
- Bed suites must include appropriate side rails, braking, height adjustment or equivalent safe operating functionality, mattress and any accessories required for training use.
- Simulated headwalls must create a realistic clinical environment and may include non-functional or simulated medical gas, suction, power and call-bell style features for teaching purposes.
- Emergency crash carts must be suitable for simulation, storage and teaching use and must be supplied with appropriate drawers, compartments and mobility features.
- Storage and racking must be suitable for safe storage of manikins, task trainers, consumables and simulation accessories.
- All furniture and clinical environment items must be robust, safe, cleanable and suitable for education and training settings.
- Suppliers must confirm delivery, access, assembly, installation, positioning and commissioning requirements for each location.
- Suppliers must provide details of cleaning, maintenance, spare parts, safe working load and lifecycle support for all relevant items.

Tenderers may propose equivalent or alternative products where they meet or exceed the stated functional, educational and technical requirements. All equipment must be durable, cleanable, safe, suitable for repeated learner use and supplied with all accessories, consumables, documentation, training, warranty and support required for full operational use.

Equipment	Quantity
Cork College of FET - Morrison's Island Campus	
Hospital Bed Suite	4
Simulated Headwalls	3
Emergency Crash Carts	3

Manikin Storage Racking	2
Cork College of FET – Mallow Campus	
Hospital Bed Suite	2
Simulated Headwalls	1
Emergency Crash Carts	1
Manikin Storage Racking	2
Cork College of FET – Kinsale Campus	
Hospital Bed Suite	1
Cork College of FET – West Cork Campus	
Hospital Bed Suite	1
Tenderers may propose equivalent or alternative products where they meet or exceed the stated functional, educational and technical requirements. All equipment must be durable, cleanable, safe, suitable for repeated learner use and supplied with all accessories, consumables, documentation, training, warranty and support required for full operational use.	

Hospital Bed Suite
The Hospital Bed Suite should support healthcare education, simulated ward environments, nursing care training, clinical skills practice and learner assessment. Key requirements include: • Adjustable hospital bed suitable for patient positioning, care delivery and moving/handling training. • Adjustable backrest, knee break, bed height and overall positioning, where applicable. • Side rails, lockable castors/brakes, mattress, headboard, footboard and associated fittings. • Bedside locker/cabinet, overbed table and bedside/visitor chair, where required. • IV pole or drip stand and simulated call bell system, where applicable. • Bed linen, pillows and ward accessories for a realistic clinical bedspace. • Optional compatible headwall, simulated oxygen/suction panels or service panels, where applicable. • Durable, cleanable surfaces suitable for healthcare education and infection prevention teaching. • Compatible with adult patient manikins, nursing simulators and clinical skills equipment. • Suitable footprint and safe working space for classroom, clinical skills, ward simulation and assessment settings. • Includes all accessories, fixings, manuals, documentation and start-up materials.

- Delivery, positioning, installation/set-up, commissioning, testing, handover and staff guidance/training.
- Warranty, technical support, maintenance options and spare/replacement parts availability.

Tenderers should confirm the make/model, technical specifications, adjustment functions, dimensions, weight limits, included furniture/accessories, cleaning requirements, installation/power needs, warranty, spare parts and support arrangements.

Simulated Headwalls

The **Simulated Headwalls** should support realistic ward, clinical skills and patient care training environments.

Key requirements include:

- Realistic bedhead/headwall design for simulated clinical care environments.
- Simulated oxygen, suction, medical air and service outlet facias, where applicable.
- Electrical socket facias, nurse call facia, lighting controls and bedhead service representations, where applicable.
- Training-safe or non-functional simulated outlets unless otherwise specified.
- Wall-mounted, freestanding or mobile mounting options, depending on site needs.
- Compatible with hospital beds, bedside furniture, manikins and clinical skills equipment.
- Durable, cleanable surfaces suitable for healthcare education and infection prevention teaching.
- Safe construction with secure fixings, rounded edges and appropriate finish.
- Supports teaching of patient positioning, observation, basic care, escalation, emergency response and communication.
- Includes panels, fixings, brackets, mounting hardware, documentation and start-up materials.
- Delivery, positioning, installation/set-up, commissioning, testing, handover and staff guidance/training.
- Warranty, technical support, maintenance options and spare/replacement parts availability.

Tenderers should confirm the make/model, dimensions, mounting method, simulated outlet/service configuration, safety features, installation and cleaning requirements, warranty, spare parts and support arrangements.

Emergency Crash Carts

The **Emergency Crash Carts** should support realistic simulated ward, emergency response, clinical skills and learner assessment environments.

Key requirements include:

- Realistic emergency crash cart/trolley for healthcare education and simulation.
- Multiple drawers or storage compartments for simulated emergency equipment and training consumables.
- Durable, cleanable surfaces suitable for regular education use.
- Lockable or controlled-access drawers, where applicable.
- Smooth manoeuvrability with castors and lockable brakes.
- Suitable worktop/top surface for simulated emergency preparation.
- Accessories such as side rails, hooks, sharps/waste bin holders, oxygen cylinder holder or IV pole attachment, where applicable.
- Defibrillator shelf or mounting area for training defibrillator/AED units, where applicable.
- Clear drawer labelling or label facility for realistic emergency trolley layout.
- Compatible with simulated emergency equipment, CPR manikins, patient simulators and ward scenarios.
- Suitable for teaching emergency preparedness, equipment familiarisation, role allocation, escalation and team communication.
- Includes accessories, dividers, trays, labels, holders, fixings, documentation and start-up materials.
- Delivery, positioning, set-up, testing, handover and staff guidance/training.
- Warranty, technical support, maintenance options and spare/replacement parts availability.

Tenderers should confirm the make/model, dimensions, drawer/storage configuration, locking arrangements, castor/brake details, included accessories, equipment compatibility, cleaning requirements, warranty, spare parts and support arrangements.

Manikin Storage Racking

The **Manikin Storage Racking** should provide safe, organised and efficient storage for clinical simulation manikins, task trainers, accessories and related equipment.

Key requirements include:

- Robust storage racking suitable for adult, paediatric, infant and specialist manikins, where applicable.
- Shelving, rack or cradle configuration suitable for manikins and related accessories.
- Adequate load-bearing capacity for the equipment being stored.
- Adjustable or modular design to accommodate different manikin sizes and accessories.
- Durable, cleanable surfaces suitable for healthcare education environments.
- Design to protect manikins from damage, pressure points, distortion, dust and poor handling.

- Safe access for staff to place and retrieve manikins with reduced lifting or manual handling risk.
- Mobile or static options, including lockable castors, brakes or wall/floor fixing, where applicable.
- Suitable footprint for clinical skills rooms, simulation spaces, stores or preparation areas.
- Labelling or identification facility for organised storage and equipment tracking.
- Includes frames, shelves, brackets, cradles, fixings, castors, labels, assembly materials, documentation and start-up materials.
- Delivery, assembly, positioning, installation/fixing, testing, handover and staff guidance/training.
- Warranty, technical support, maintenance options and spare/replacement parts availability.

Tenderers should confirm the make/model, dimensions, load capacity, mobile/static configuration, shelving/cradle arrangement, materials, finish, cleaning requirements, installation/fixing needs, compatibility with manikins/accessories, warranty and support arrangements.

Lot 1 – Design, Supply, Installation and Commissioning of a Turnkey Healthcare Simulation Solution for the Cork College of FET Clinical Simulation and Integrated Assessment Network

- **Simulation AV, Capture and Assessment Systems**

This includes a Simulation control software system or equivalent systems, cloud or locally hosted simulation management functionality, nodes, PTZ cameras, microphones, speakers, audio modules, mixers, encoders, panel PCs, instructor stations, racks, cabling, licences, data security controls and system support for recorded competency assessment.

This section covers the supply, installation, configuration, integration, commissioning, training, warranty, support and maintenance of an enterprise clinical simulation management, audio-visual, recording, capture, replay, remote observation and integrated assessment platform.

The solution shall support secure recording, live observation, debriefing, learner feedback, competency assessment, learner portfolio management, Objective Structured Clinical Examinations (OSCEs), internal verification, external authentication, quality assurance and institutional reporting across multiple Cork College of FET locations.

The Tenderer shall provide a mature, commercially available enterprise healthcare simulation management platform forming an integral component of the proposed Clinical Simulation Solution.

The platform shall provide the central software environment for the management, scheduling, operation, capture, observation, assessment, competency management, reporting and administration of simulation-based education across the Clinical Simulation and Integrated Assessment Network.

The platform shall not be limited to video recording or debriefing functionality but shall operate as a comprehensive enterprise clinical simulation management and assessment platform.

The platform shall be fully licensed, configured, integrated, commissioned and supported as part of the overall solution.

The solution shall include all hardware, software, licences, cameras, PTZ cameras, microphones, speakers, audio modules, mixers, encoders, capture nodes, panel PCs, instructor stations, racks, cabling, mounting hardware, user authentication, secure storage, audit trails, documentation, training and ongoing support necessary for full operational use.

Systems shall be secure, scalable, intuitive to operate, compatible with the simulation equipment supplied under this Contract and capable of supporting multi-room, multi-site and future expansion of the Clinical Simulation and Integrated Assessment Network.

As a minimum, the proposed platform shall:

- Support secure capture, recording, replay, live observation, debriefing and competency assessment of simulation, clinical skills training and structured assessment activities.
- Provide enterprise simulation management specifically designed for healthcare simulation and clinical education.
- Support centralised scheduling and management of learners, faculty, simulation rooms, equipment and simulation activities.
- Support competency-based assessment, digital assessment forms, examiner workflows, learner portfolios and institutional reporting.
- Support Objective Structured Clinical Examination (OSCE) delivery, including digital examiner workflows, structured marking and assessment recording.
- Support multiple simulation rooms, multiple campuses, multiple simultaneous users, multiple cameras, microphones, patient monitor feeds and digital inputs, with capacity for future expansion across additional Cork College of FET locations.
- Allow authorised users to record, annotate, tag, bookmark, review, assess and replay simulation and assessment sessions.
- Support live remote observation, assessment and debriefing, enabling authorised staff located at one campus to observe and assess simulation activity taking place at another campus.
- Provide secure role-based access control, comprehensive audit trails, encrypted storage, configurable retention policies and compliance with applicable data protection legislation.
- Provide high-definition video and high-quality audio suitable for competency assessment, learner feedback, debriefing, internal verification and quality assurance.

- Support synchronised replay of video, audio, simulator events, physiological data and assessment records through a single integrated timeline.
- Integrate with the simulation equipment, patient monitors, instructor workstations and associated devices supplied under this Contract.

Native integration between the simulation management platform and the supplied simulation equipment is preferred. Where native integration is not proposed, Tenderers shall demonstrate that third-party integration is fully supported by the relevant manufacturers, provides equivalent functionality, is supplied with all required middleware and licences, and is supported throughout the duration of the warranty and maintenance period. The Tenderer shall accept sole responsibility for maintaining interoperability between all proposed components. Manual synchronisation of recordings, simulator events or assessment data following completion of a simulation session shall not be considered compliant.

- Include system design, installation, configuration, integration, network readiness support, testing, commissioning, acceptance testing and full documentation.
- Provide administrator training, instructor training, end-user training, user documentation, technical documentation, software updates and ongoing maintenance and support.

Tenderers shall provide documentary evidence demonstrating compliance with each functional requirement. Statements of compliance without supporting evidence may be deemed insufficient.

Tenderers may propose equivalent products where they demonstrably meet or exceed all mandatory functional, educational, technical and interoperability requirements contained within this specification. The burden of demonstrating equivalence shall rest entirely with the Tenderer.

All equipment and software shall be durable, secure, suitable for repeated educational use and supplied complete with all accessories, licences, documentation, training, warranty and support necessary to achieve full operational functionality.

The proposed platform shall operate as the primary enterprise software platform for the management of clinical simulation activities and shall not require separate software applications to deliver core functionality including simulation scheduling, learner management, competency assessment, digital assessment recording, OSCE management, debriefing, reporting and simulation device integration.

Solutions comprising multiple independent applications requiring manual transfer of data between systems to achieve these core functions shall not be considered compliant.

The system must be able to manage the simulation delivery both from within the location and remotely.

Equipment	Quantity
Cork College of FET - Morrison's Island Campus	
Node	1

Appendix 1 – Detailed Specification of Requirements per Lot

PTZ Cameras	6
Audio Module Package	2
HDMI-IP Encoders	3
Panel PC	1
Sim Device Controller	1
Ceiling Microphone	4
Ceiling speakers	3
Audio Mixer	3
Under Counter rack Mounting Cabinet	1
Cork College of FET – Mallow Campus	
Node	1
PTZ Cameras	4
Audio Module Package	2
HDMI-IP Encoders	1
Panel PC	1
Sim Device Controller	1
Ceiling Microphone	2
Ceiling speakers	1
Audio Mixer	1
Under Counter rack Mounting Cabinet	1
Cork College of FET – Kinsale Campus	
Node	1
PTZ Cameras	3
Audio Module Package	1
Panel PC	1
Sim Device Controller	1

Appendix 1 – Detailed Specification of Requirements per Lot

Ceiling Microphone	1
Ceiling speakers	1
Audio Mixer	1
Under Counter rack Mounting Cabinet	1
Cork College of FET – West Cork Campus	
Node	1
PTZ Cameras	3
Audio Module Package	1
Panel PC	1
Sim Device Controller	1
Ceiling Microphone	1
Ceiling speakers	1
Audio Speaker	1
Under Counter rack Mounting Cabinet	1
Macroom FET	
Node	1
PTZ Cameras	2
Ceiling Microphone	1
Audio Module Package	1
Youghal FET	
Node	1
PTZ Cameras	2
Ceiling Microphone	1
Audio Module Package	1
Tenderers may propose equivalent or alternative products where they meet or exceed the stated functional, educational and technical requirements. All equipment must be durable, cleanable, safe, suitable for repeated learner use and supplied with all accessories, consumables, documentation, training, warranty and support required for full operational use.	

Node

The **Node** is required to support secure audio and video capture, recording, replay, live observation, debriefing and recorded competency assessment within Cork College of FET simulation and clinical skills environments.

Key requirements include:

- Must ensure that the location can operate the healthcare simulation management platform or an equivalent simulation AV, capture, recording, debriefing and assessment platform.
- Support connection to relevant AV sources, including PTZ cameras, microphones, audio modules, HDMI-IP encoders, patient monitor feeds, instructor stations and associated AV equipment.
- Enable authorised users to capture, record, replay, review, bookmark, annotate and debrief simulation, skills practice and assessment sessions.
- Support live and remote observation for teaching, assessment, internal verification and quality assurance.
- Provide secure user access controls, audit trails, data protection safeguards and compatibility with Cork ETB ICT and information security requirements.
- Support secure storage, retrieval and management of recorded audio, video and assessment data.
- Be scalable for use across multiple simulation rooms, assessment stations and Cork College of FET locations. Be a solution that is future proofed for additional locations if required.
- Include all required hardware, software, licences, cabling, mounting accessories, configuration and integration components required for full operational use.
- Be compatible with agreed network, bandwidth, firewall, port, power, PoE/PoE+ and storage requirements.
- Delivery, installation, configuration, integration, testing, commissioning, handover and user training must be included.
- Warranty, technical support, maintenance options, software updates and replacement parts availability must be provided.

Tenderers should confirm the make/model, system architecture, AV inputs supported, camera/audio compatibility, software/licensing requirements, hosting/storage approach, network and ICT dependencies, data security controls, integration approach, warranty, support response times and any recurring licence, subscription, hosting, maintenance or support costs.

PTZ Cameras

PTZ cameras are required to support live observation, recording, playback and assessment of simulation-based learning activities across Cork College of FET locations. Cameras must be suitable for use in clinical simulation rooms, skills rooms, assessment spaces and debriefing environments.

The cameras must integrate with the proposed AV capture, recording and assessment platform and support high-quality video capture of learner activity, instructor activity, clinical procedures and room-wide simulation scenarios. The solution must allow authorised users to view, control and record camera feeds securely as part of the wider simulation management and assessment system.

Key requirements include:

- Minimum Full HD 1080p video capture.
- Pan, tilt and optical zoom capability.
- Smooth, quiet operation suitable for teaching and assessment.
- Preset camera positions for rapid room viewing.
- Remote control through the AV/assessment system.
- Suitable field of view for both room-wide and focused clinical skills capture.
- Low-light performance for indoor simulation rooms.
- Compatibility with recording, streaming, replay and assessment systems.
- Secure network access and user controls.
- Synchronisation with audio and other video sources.
- Wall or ceiling mounting, including all brackets, cabling and installation accessories.
- Installation, configuration, testing, handover, user training, warranty and support.

Tenderers should confirm the camera make/model, technical specifications, mounting needs, system compatibility, warranty, support arrangements, and any licence or software requirements.

Audio Module Package

The **audio module package** must form part of the wider solution and must integrate with the proposed simulation AV, capture, recording, replay, debriefing and assessment platform.

Key requirements must:

- Support clear audio capture, playback, routing and transmission for simulation, teaching, observation, debriefing and recorded assessment.
- Integrate with the wider AV capture, recording, replay and assessment system, or equivalent platforms where applicable.
- Connect with microphones, speakers, capture nodes, instructor stations, AV racks, control interfaces and associated AV equipment.

- Provide suitable audio quality, speech intelligibility, room coverage, noise management and level control.
- Be compatible with Cork ETB ICT and AV infrastructure, including network, power, cabling, PoE/PoE+, security and site readiness requirements.
- Include all required hardware, software, licences, cabling, mounting accessories, configuration and integration components.
- Be scalable for future expansion across additional simulation rooms, assessment stations and Cork College of FET locations.
- Comply with applicable data protection, privacy, access control and information security requirements where audio is captured, stored or transmitted.

Tenderers must provide installation, testing, commissioning, training, documentation, warranty, support contacts and escalation procedures.

Tenderers must identify all recurring licence, subscription, maintenance, support, software update or upgrade costs, including any dependencies, exclusions or limitations.

HDMI-IP Encoders

The **HDMI-IP Encoders** are required to capture and convert HDMI video sources into IP-based streams for integration with the proposed simulation AV, capture, recording, replay, debriefing and assessment system.

Key requirements include:

- Support HDMI input from relevant sources, including patient monitors, instructor devices, laptops, simulation equipment or other digital video outputs.
- Encode HDMI video to IP/network stream formats compatible with the proposed Lot 4 AV capture and assessment system.
- Support high-quality video capture suitable for live observation, recording, replay, debriefing and recorded competency assessment.
- Integrate with the healthcare simulation management platform or equivalent platforms, where applicable.
- Support secure network connectivity and compatibility with Cork ETB ICT infrastructure, including bandwidth, IP addressing, firewall, port and security requirements.
- Provide stable, low-latency transmission suitable for teaching, assessment and remote observation.
- Include all required hardware, power supplies, network interfaces, cabling, mounting accessories, licences, configuration and integration components.
- Be suitable for installation within AV racks, under-counter racks, teaching spaces, simulation rooms or technical areas as required.
- Support reliable operation during regular clinical simulation, skills training and assessment activity.
- Delivery, installation, configuration, integration, testing, commissioning, handover and user training must be included.

- Warranty, technical support, maintenance options, software/firmware updates and replacement parts availability must be provided.

Tenderers should confirm the make/model, HDMI input specifications, supported resolutions and frame rates, encoding formats, latency, network requirements, compatibility with the proposed AV capture system, mounting method, power requirements, software/licensing requirements, warranty, support response times and any recurring costs

Panel PC

The **Panel PC**, is required to provide a reliable touchscreen interface for authorised users to access, control and monitor simulation AV, capture, recording, replay, debriefing and assessment functions within Cork College of FET simulation and clinical skills environments.

Key requirements include:

- Commercial or industrial-grade all-in-one Panel PC with integrated touchscreen display.
- Suitable display size, resolution, brightness and viewing angle for room-based instructor, assessor or technical use.
- Touchscreen suitable for frequent use in education and simulation settings.
- Processor, memory, storage and operating system sufficient to run the proposed AV, capture, recording and assessment software.
- Must integrate with the proposed Lot 1 AV capture and assessment system, including healthcare simulation management platform or equivalent platforms where applicable.
- Must support secure user login, access control, network connectivity and compliance with Cork ETB ICT and information security requirements.
- Must include all required ports, network interfaces, power supplies, mounting hardware, cabling, software, licences and configuration required for full operational use.
- Suitable for wall, desk, trolley, rack or room-based installation, as required by the site.
- Durable, reliable and suitable for regular use in clinical simulation, skills training, assessment and debriefing environments.
- Delivery, installation, configuration, integration, testing, commissioning, handover and user training must be included.
- Warranty, technical support, maintenance options, software updates and replacement parts availability must be provided.

Tenderers should confirm the make/model, display size, resolution, touchscreen type, processor, memory, storage, operating system, connectivity, mounting method, software/licensing requirements, integration approach, ICT dependencies, warranty, support response times and any recurring costs.

Sim Device Controller

The **Sim Device Controller** is required to provide a portable instructor control interface for managing compatible simulation equipment, scenarios, learner activity and debriefing workflows within Cork College of FET simulation and clinical skills environments.

Key requirements include:

- Portable handheld or tablet-style instructor control device suitable for simulation-based teaching and assessment.
- Must integrate with compatible patient simulators, manikins, scenario software and AV/capture systems, including healthcare simulation management platform or equivalent platforms where applicable.
- Enable instructors to start, pause, control and adapt simulation scenarios in real time.
- Support control of patient parameters, vital signs, events, trends and scenario progression, where applicable.
- Support learner observation, scenario logging, event marking, feedback and debriefing workflows.
- Suitable for use in clinical simulation rooms, skills rooms, assessment spaces and multi-site teaching environments.
- Provide reliable wired and/or wireless connectivity compatible with Cork ETB ICT and simulation infrastructure.
- Include secure user access, data protection safeguards and compatibility with relevant ICT/security requirements.
- Include all required software, licences, updates, power supplies, chargers, cables, cases, accessories and configuration required for full operational use.
- Delivery, configuration, integration, testing, commissioning, handover and user training must be included.
- Warranty, technical support, maintenance options, software updates and replacement parts availability must be provided.

Tenderers should confirm the make/model, simulator compatibility, software/licensing requirements, connectivity, battery life, user access controls, integration with AV/capture and assessment systems, included accessories, warranty, support response times and any recurring licence, subscription, maintenance or support costs.

Sennheiser Ceiling Microphone

The **Sennheiser Ceiling Microphone, or equivalent**, is required to provide high-quality room audio capture for simulation teaching, live observation, recording, replay, debriefing and recorded competency assessment within Cork College of FET simulation and clinical skills environments.

Key requirements include:

- Ceiling-mounted microphone suitable for clinical simulation rooms, skills rooms, assessment spaces and debriefing environments.
- Capture clear speech and room audio from learners, instructors, assessors and simulated patient interactions.
- Provide suitable room coverage, speech intelligibility and audio quality for teaching, assessment, replay and quality assurance.
- Support beamforming, directional pickup, noise reduction or equivalent audio capture functionality, where applicable.
- Integrate with the proposed Lot 4 AV capture, recording, replay, debriefing and assessment system, including SimCapture or equivalent platforms where applicable.
- Be compatible with associated audio modules, mixers, capture nodes, speakers, cameras and AV/network infrastructure.
- Support secure and reliable audio transmission, synchronised with video and other digital sources.
- Be suitable for ceiling installation, including all required mounting hardware, cabling, interfaces, power supplies, PoE/PoE+ or network requirements.
- Must be compatible with Cork ETB ICT, AV, network, data protection and information security requirements.
- Delivery, installation, configuration, integration, testing, commissioning, handover and user training must be included.
- Warranty, technical support, maintenance options, firmware/software updates and replacement parts availability must be provided.

Tenderers should confirm the make/model, microphone type, pickup pattern/coverage area, beamforming or noise management features, audio connectivity, network/power requirements, compatibility with the proposed AV capture system, mounting method, software/licensing requirements, warranty, support response times and any recurring costs.

BIAMP CM20DT 2-Way Ceiling Speaker

The **BIAMP CM20DT 2-Way Ceiling Speaker, or equivalent**, are required to provide clear room audio playback for simulation teaching, live observation, debriefing, scenario delivery and learner feedback within Cork College of FET simulation and clinical skills environments.

Key requirements include:

- Ceiling-mounted speakers suitable for clinical simulation rooms, skills rooms, assessment spaces and debriefing environments.
- Provide clear and intelligible audio playback for instructor voice, scenario audio, simulated patient audio, alerts, debriefing and recorded session review.
- Integrate with the proposed Lot 1 AV capture, recording, replay, debriefing and assessment system, including healthcare simulation management platform or equivalent platforms where applicable.

- Be compatible with associated audio modules, mixers, microphones, capture nodes, instructor stations and AV/network infrastructure.
- Provide suitable room coverage, volume level, audio clarity and speech intelligibility for teaching and assessment use.
- Support reliable synchronisation with video, microphone and other AV sources where required.
- Include all required mounting hardware, cabling, interfaces, amplifiers, power supplies, configuration and integration components required for full operational use.
- Be suitable for safe and secure ceiling installation in the relevant teaching or simulation spaces.
- Must be compatible with Cork ETB ICT, AV, electrical, network, data protection and information security requirements.
- Delivery, installation, configuration, integration, testing, commissioning, handover and user training must be included.
- Warranty, technical support, maintenance options, firmware/software updates and replacement parts availability must be provided.

Tenderers should confirm the make/model, speaker type, power rating, coverage area, audio connectivity, amplifier requirements, mounting method, compatibility with the proposed AV capture system, configuration requirements, warranty, support response times and any recurring costs.

Extron Stereo Audio Mixer

The **Extron Stereo Audio Mixer, or equivalent**, is required to manage, mix and route audio signals from microphones, playback devices, AV sources and simulation equipment for use within the proposed simulation AV, capture, recording, replay, debriefing and assessment system.

Key requirements include:

- Support multiple audio inputs and outputs suitable for microphones, ceiling microphones, speakers, instructor stations, playback devices, capture nodes and AV equipment.
- Provide clear audio mixing, level control and routing for simulation teaching, live observation, recording, replay, debriefing and assessment.
- Integrate with the proposed Lot 1 AV capture and assessment system, including healthcare simulation management platform or equivalent platforms where applicable.
- Support balanced/unbalanced audio connectivity as required by the proposed system design.
- Provide reliable audio quality, speech intelligibility and low-noise operation suitable for clinical simulation and assessment environments.
- Be compatible with associated microphones, speakers, audio modules, amplifiers, capture nodes, panel PCs, racks and AV/network infrastructure.
- Include all required hardware, interfaces, cabling, power supplies, mounting accessories, software, licences and configuration required for full operational use.

- Be suitable for installation in AV racks, under-counter racks, teaching spaces, simulation rooms or technical areas as required.
- Must be compatible with Cork ETB ICT, AV, electrical, network, data protection and information security requirements.
- Delivery, installation, configuration, integration, testing, commissioning, handover and user training must be included.
- Warranty, technical support, maintenance options, firmware/software updates and replacement parts availability must be provided.

Tenderers should confirm the make/model, input and output configuration, audio connectivity, level control and routing capabilities, compatibility with the proposed AV capture system, mounting method, power requirements, software/licensing requirements, warranty, support response times and any recurring costs.

Under Counter Rack Mounting Cabinet

The **Under Counter Rack Mounting Cabinet** is required to provide secure, organised and accessible housing for AV, audio, network and capture system equipment within simulation, clinical skills and assessment environments.

Key requirements include:

- Suitable for under-counter, wall-adjacent or room-based installation as required by the site.
- Provide secure mounting and storage for AV equipment, including capture nodes, encoders, audio mixers, audio modules, network equipment, power supplies and associated cabling.
- Be compatible with standard rack-mounted or shelf-mounted AV and ICT equipment.
- Provide adequate ventilation, cable management, access panels and service access for installation, maintenance and future upgrades.
- Include lockable doors or secure access controls to protect equipment from unauthorised access, damage or tampering.
- Be of durable construction suitable for regular use in education, simulation and technical environments.
- Be sized appropriately for the proposed equipment, with spare capacity for reasonable future expansion where possible.
- Include all required shelves, rails, brackets, fixings, cable management, power distribution, ventilation accessories and installation materials required for full operational use.
- Be compatible with Cork ETB ICT, AV, electrical, fire safety, access and site installation requirements.
- Delivery, installation, positioning, configuration, integration, testing, commissioning and handover must be included.

Appendix 1 – Detailed Specification of Requirements per Lot

- Warranty, technical support, maintenance options and replacement parts availability must be provided.

Tenderers should confirm the make/model, dimensions, rack unit capacity, mounting method, load rating, ventilation provision, lock/security features, cable management, power distribution, included shelves/accessories, installation requirements, warranty, support arrangements and any limitations or exclusions.

Lot 2 Simulation AV, Capture and Assessment Systems

Lot 2 covers the supply, configuration, licensing, training, warranty, support and maintenance of digital learning, virtual reality, immersive simulation, anatomy learning and interactive healthcare education systems required to support clinical simulation, digital skills development, scenario-based learning and hybrid healthcare education across the Cork College of FET Clinical Simulation and Integrated Assessment Network.

This lot may include, but is not limited to, digital anatomy tables or equivalent interactive anatomy platforms, VR headsets, immersive healthcare learning platforms, simulation workflow software, virtual simulation content, device management tools, charging and storage solutions, software licences, user accounts, content subscriptions, updates, staff training, learner-use guidance, cleaning protocols and ongoing technical support.

All proposed systems must be suitable for healthcare education, safe for shared learner use, scalable across multiple locations, compatible with relevant digital learning and simulation environments, and compliant with applicable data protection, cyber security, accessibility, health and safety and learner safeguarding requirements.

- Digital learning and VR systems must support healthcare education, clinical reasoning, communication, care skills, pre-hospital care, anatomy, patient interaction, scenario-based learning or immersive practice relevant to the proposal.
- VR headsets and devices must include all required controllers, chargers, cases, device management tools, licences, user accounts and content access required for operational use.
- Immersive platforms must support structured teaching, learner engagement, scenario playback or guided learning activities.
- Anatomy table or equivalent digital anatomy solution must support interactive anatomy teaching, body systems exploration and healthcare programme delivery.
- Simulation workflow software must support planning, delivery, scenario management, learner engagement, assessment or debriefing workflows where applicable.
- Charging lockers or storage solutions must support secure charging, storage, access control and device management for VR or digital equipment including those provided for within this lot.
- Suppliers must identify all recurring licence, subscription, content, update, support and device management costs.
- Suppliers must provide staff orientation, administrator training, learner-use guidance, health and safety guidance and cleaning protocols for shared devices.
- Systems must comply with data protection, cyber security, accessibility and appropriate learner safeguarding requirements.

Tenderers may propose equivalent or alternative products where they meet or exceed the stated functional, educational and technical requirements. All equipment must be durable, cleanable, safe, suitable for repeated learner use and supplied with all accessories, consumables, documentation, training, warranty and support required for full operational use.

Equipment	Quantity
Cork College of FET - Morrison's Island Campus	
Virtual Dissection Anatomy Table 43-inch	1
AI-Powered Healthcare Communication Simulation and Clinical Consultation and Platform	1
Meta Quest 3S 128GB	12
onView RFID VR headset 12 bay charging locker	1
Cork College of FET – Mallow Campus	
Meta Quest 3S 128GB	6
onView RFID VR headset 12 bay charging locker	1
Cork College of FET – Kinsale Campus	
Meta Quest 3S 128GB	4
onView RFID VR headset 12 bay charging locker	1
Cork College of FET – West Cork Campus	
Meta Quest 3S 128GB	4
onView RFID VR headset 12 bay charging locker	1
Macroom FET	
Meta Quest 3S 128GB	2
Youghal FET	
Meta Quest 3S 128GB	2

Virtual Dissection Anatomy Table 43-inch

The **Virtual Dissection Anatomy Table 43-inch** is required to provide an interactive digital anatomy learning platform to support healthcare education, anatomy teaching, clinical skills development, scenario-based learning and learner engagement within Cork College of FET environments.

Key requirements include:

- 43-inch interactive touchscreen anatomy table or equivalent digital anatomy platform suitable for healthcare education.
- Support detailed exploration of human anatomy, body systems, organs, structures and physiological relationships.
- Include high-quality 3D anatomical content suitable for teaching, demonstration, guided learning and learner self-directed study.
- Support virtual dissection, layer-by-layer exploration, rotation, zooming, labelling and visualisation of anatomical structures.
- Include content relevant to healthcare, nursing, health science, emergency care, anatomy and physiology programmes.
- Suitable for individual, small-group and classroom-based teaching and learning.
- Provide intuitive user controls for tutors and learners, including search, navigation, annotation or guided learning features where available.
- Include all required hardware, software, licences, anatomical content, user accounts, accessories, power supplies and configuration for full operational use.
- Be suitable for installation and use in education, simulation, clinical skills or digital learning environments.
- Must be compatible with Cork ETB ICT, cyber security, data protection, accessibility and health and safety requirements.
- Delivery, installation, configuration, testing, commissioning, handover and staff training must be included.
- Warranty, technical support, software/content updates, maintenance options and replacement parts availability must be provided.

Tenderers should confirm the make/model, screen size, touchscreen functionality, anatomical content included, body systems covered, software/licensing model, user access arrangements, update arrangements, ICT/network requirements, installation requirements, accessibility features, warranty, support response times and any recurring licence, subscription, content update, maintenance or support costs.

AI-Powered Healthcare Communication Simulation and Clinical Consultation Platform

The Tenderer shall provide an AI-powered healthcare communication simulation and clinical consultation platform to support the delivery of realistic, repeatable and scalable communication-

based clinical education across the Cork College of FET Clinical Simulation and Integrated Assessment Network.

The platform shall provide a secure digital environment in which learners engage in realistic, unscripted voice-based conversations with AI-generated patients, relatives, carers, colleagues and other healthcare professionals, enabling the development of clinical communication, consultation, professional judgement and person-centred care skills within a safe learning environment.

The platform shall be specifically designed for healthcare simulation and clinical education and shall include all software, licences, implementation, configuration, documentation, training and ongoing support required for full operational use.

The proposed solution shall, as a minimum:

- Support realistic AI-powered voice-to-voice healthcare communication simulations using natural spoken conversation.
- Support dynamic, unscripted conversations in which AI-generated patient responses adapt intelligently to learner questioning, communication style and clinical decision-making rather than relying upon fixed scripted dialogue pathways.
- Provide a comprehensive library of healthcare communication simulation scenarios covering a range of healthcare professions, patient presentations and clinical settings.
- Support simulation scenarios including, where appropriate, history taking, patient assessment, clinical consultations, breaking bad news, safeguarding, consent, mental health, conflict resolution, family communication, multidisciplinary communication, clinical handover and escalation of care.
- Permit authorised educators to create, customise, adapt, manage and share institution-specific simulation scenarios aligned to programme learning outcomes and curriculum requirements.
- Support configurable patient personalities, emotional responses, communication styles and clinical presentations appropriate to healthcare education.
- Enable learners to undertake simulation activities independently or as part of facilitated teaching sessions using standard computing devices and internet connectivity.
- Provide immediate AI-generated formative feedback to learners on communication skills, consultation approach, empathy, questioning techniques, clinical reasoning and achievement of defined learning objectives.
- Generate detailed learner performance summaries identifying strengths, opportunities for improvement and recommendations for further deliberate practice.
- Provide access to conversation transcripts and audio replay to facilitate learner reflection, educator review and structured debriefing.
- Support educator dashboards enabling monitoring of learner participation, activity, progress and engagement across individual learners, cohorts and programmes.
- Support educator-defined learning objectives, feedback frameworks and configurable evaluation criteria where available.
- Permit repeated learner practice of simulation scenarios to reinforce confidence, competence and communication skills through deliberate practice.
- Support secure role-based access for administrators, educators and learners.

Be scalable for deployment across multiple programmes, learner cohorts and Cork College of FET campuses.

Support secure cloud-hosted deployment with appropriate authentication, encryption, cybersecurity and data protection controls. Be compatible with Cork ETB ICT infrastructure, accessibility requirements, learner safeguarding policies and applicable data protection legislation. Include administrator training, educator training, implementation support, user guidance and comprehensive technical documentation.

Include software updates, maintenance, technical support and ongoing service arrangements throughout the contract period.

Tenderers shall confirm:

- the proposed licensing model and all recurring subscription costs;
- the number and type of learner, educator and administrator accounts included;
- the number, scope and healthcare disciplines covered by the supplied scenario library;
- scenario authoring, customisation and content management functionality;
- AI patient conversation capabilities, including voice interaction and adaptive conversational behaviour;
- learner feedback, performance analysis and reporting functionality;
- transcript generation and audio replay capabilities;
- educator dashboard and learner management functionality;
- curriculum alignment and educator configuration options;
- hosting model, ICT requirements and implementation arrangements;
- cybersecurity, accessibility and data protection measures;
- training, onboarding and technical support arrangements;
- service level commitments, response times and software update policy;
- all recurring licence, maintenance, content, support and subscription costs.

Tenderers may propose equivalent AI-powered healthcare communication simulation platforms where they demonstrably meet or exceed the functional, educational and technical requirements contained within this specification. The burden of demonstrating equivalence shall rest entirely with the Tenderer.

Meta Quest 3S 128GB (or equivalent)

The **Meta Quest 3S 128GB, or equivalent**, is required to provide standalone virtual reality headset functionality to support immersive healthcare education, VR training modules, augmented/virtual learning content, clinical skills development, scenario-based learning and learner engagement within Cork College of FET environments.

Key requirements include:

- Standalone VR headset suitable for education, healthcare simulation and shared learner use.
- Minimum 128GB storage capacity.
- Compatible with proposed VR/AR healthcare learning platforms, including Bodyswaps, Meta Verse Learning or equivalent content platforms, where applicable.
- Include headset, controllers, charging cable, power adapter, facial interface, head strap and all standard accessories required for operation.
- Support immersive interactive learning, scenario-based training, communication practice, clinical confidence-building and learner reflection.
- Suitable for individual, small-group and tutor-led learning activities.
- Support secure user access, device setup, content access, app installation and device management.
- Compatible with Cork ETB ICT, cyber security, data protection, accessibility, health and safety and learner safeguarding requirements.
- Be suitable for repeated shared use, including cleaning, hygiene, storage, charging and safe handling procedures.
- Include all required licences, accounts, configuration, updates, device management support and implementation guidance required for full operational use.
- Staff training, administrator guidance, learner-use guidance, documentation and handover must be included.
- Warranty, technical support, software/firmware updates, maintenance options and replacement/replacement-part availability must be provided.

Tenderers should confirm the make/model, storage capacity, headset specifications, controllers/accessories included, compatible software/content platforms, device management arrangements, account/licensing requirements, cleaning and hygiene guidance, charging/storage requirements, ICT/network dependencies, warranty, support response times and any recurring licence, subscription, device management, maintenance or support costs.

onView RFID VR Headset 12-Bay Charging Locker (or equivalent)

The **onView RFID VR Headset 12-Bay Charging Locker, or equivalent**, is required to provide secure storage, charging, access control and device management for VR headsets used in healthcare education, immersive learning and simulation-based training within Cork College of FET environments.

Key requirements include:

- 12-bay charging locker suitable for VR headsets, controllers and associated accessories.
- Provide secure storage and controlled access for shared education-use VR devices.
- Include RFID, electronic access control or equivalent secure access functionality.

- Support simultaneous charging of up to 12 compatible VR headsets and/or associated controllers.
- Be compatible with Meta Quest 3S 128GB or equivalent VR headsets.
- Provide safe cable management, ventilation, charging status indication and protection against overheating.
- Support organised device allocation, charging, storage, retrieval and return processes.
- Be suitable for use in education, simulation, digital learning or shared equipment storage environments.
- Include durable, lockable construction suitable for repeated staff and learner use.
- Include all required power supplies, charging leads, adaptors, shelves/bays, RFID cards/tags or access credentials, configuration and installation materials.
- Must be compatible with Cork ETB ICT, electrical, cyber security, data protection, accessibility, health and safety and site installation requirements.
- Delivery, installation, configuration, testing, commissioning, handover and staff training must be included.
- Warranty, technical support, maintenance options, software/firmware updates and replacement parts availability must be provided.

Tenderers should confirm the make/model, number of charging bays, device compatibility, RFID/access control method, charging capacity, power requirements, ventilation and safety features, cable management, dimensions, installation requirements, included accessories, warranty, support response times and any recurring licence, subscription, maintenance or support costs.

Lot 3 Car Mobile Unit with Motion Base Simulator

Driving or emergency vehicle simulation equipment, where required, to support pre-hospital care, response readiness and safe practice scenarios.

Virtual Driving Mobile Unit with Motion Base Simulator, or equivalent, should support emergency services ambulance driving, HGV, Van, Bus, Forklift etc driver safety, hazard awareness, vehicle familiarisation, learner practice, scenario-based training and competency assessment.

Key requirements include:

- Mobile vehicle driving simulator unit with motion base functionality.
- Car seat/cockpit configuration with realistic driver positioning.
- Integrated computer and touch screen interface.
- Three 32-inch front display screens with brackets.
- One 32-inch rear display screen with bracket.
- Hanging car pedals, steering wheel and manual gearbox.
- Realistic road, traffic, environmental and hazard scenarios.
- Emergency services simulation, including emergency car and ambulance scenarios.
- Multi-vehicle simulation capability, including HGVs, van, car, plant, construction, forestry and agricultural vehicles.
- Instructor control to select, monitor, pause, reset and adjust scenarios.
- Adjustable difficulty levels and learner performance feedback, where available.
- Audio cues for engine, road, warning and scenario-based events.
- Durable construction and suitable footprint for classroom, simulation or mobile training use.
- All required hardware, software, licences, displays, brackets, cables, mounts, power supplies, manuals and accessories included.
- Train – the Trainer education.
- Delivery, installation, configuration, commissioning, testing, handover and staff training.
- Warranty, technical support, software updates, maintenance options and spare parts availability.

Tenderers should confirm the make/model, motion base capability, hardware and display configuration, vehicle modules/scenarios included, software/licensing requirements, space and power requirements, installation needs, warranty, support, maintenance, software updates and spare parts arrangements.

Equipment	Quantity
Cork College of FET - Morrison's Island Campus	
Virtual Driving Mobile Unit with Motion Base Simulator	1

Lot 4 Clinical Simulation for Veterinary Nursing

This lot includes equine, canine and feline training models and mannequins, including a horse limb model, life-size equine training mannequin, canine training mannequins and feline training mannequins, together with equipment to support veterinary clinical examination, anaesthesia, imaging familiarisation, surgical skills practice and laboratory diagnostics.

Requirements include a decommissioned X-ray generator and stand for demonstration and training purposes, an anaesthetic machine, clinical examination tables, general and orthopaedic surgical instrument sets, biochemistry analyser, automated haematology analyser, AI-based clinical analyser, digital microscopes, associated accessories, consumables, user documentation, safety information, spare parts and ongoing technical support suitable for use in a veterinary nursing education and assessment environment.

Lot 4 covers the supply, delivery, installation, commissioning, training, warranty, support and maintenance of veterinary nursing clinical simulation, diagnostic and practical skills training equipment required for use in a veterinary nursing education and assessment environment.

The equipment must support practical skills development, simulated clinical procedures, diagnostic familiarisation, laboratory diagnostics, animal handling and care scenarios, and competency-based assessment for veterinary nursing learners. The solution must be suitable for repeated learner use in a Further Education and Training environment and must be capable of supporting safe, realistic and supervised teaching, practice and assessment.

The requirement may include, but is not limited to, the following equipment categories:

- equine clinical simulation models, including a horse limb model and life-size equine training mannequin;
- canine clinical simulation mannequins suitable for practical veterinary nursing training;
- feline clinical simulation mannequins suitable for practical veterinary nursing training;
- equipment to support clinical examination, animal handling, positioning, restraint and routine care procedures;
- equipment to support anaesthesia training and familiarisation, including an anaesthetic machine suitable for education and demonstration purposes;
- equipment to support imaging familiarisation, including a decommissioned X-ray generator and stand for demonstration and training purposes only;
- clinical examination tables suitable for veterinary teaching and practical skills training;
- general and orthopaedic surgical instrument sets suitable for supervised teaching, familiarisation and skills practice;
- laboratory diagnostic equipment, including a biochemistry analyser, automated haematology analyser, AI-based clinical analyser and digital microscopes;
- associated accessories, consumables, spare parts, cleaning guidance, safety information, user documentation and technical manuals.

Tenderers may propose equivalent or alternative products where they meet or exceed the stated functional, educational and technical requirements. All equipment must be durable,

cleanable, safe, suitable for repeated learner use and supplied with all accessories, consumables, documentation, training, warranty and support required for full operational use.	
Equipment	Quantity
Cork College of FET – Douglas Street Campus	
Equine Palpation / Radiology Limb Trainer	1
Decommissioned Dental X-Ray Machine	1
Anaesthetic Machine plus vaporiser and key	1
Clinical Examination Tables	4
Clinical Examination and Radiography Table with Stand	1
Surgical Instruments (General and Orthopaedic Sets)	
Babcock forceps	1
Titanium Castroviejo needle holders	1
Finochietto retractor	1
Cone retractor	1
West retractor	1
Gouge	1
Stille Luer Bone Rongeurs	1
Fraiser suction	1
Life-Size Equine Training Mannequin	
Life Size 3D Anatomy Horse Model	1
Canine Training Mannequins	
Emily K9 Positioning Mannikin (or equivalent)	1
Critical Care Jerry (or equivalent)	2
Feline Training Mannequins	
Critical Care Fluffy (or equivalent)	3
Biochemistry Analyser	1
Automated Haematology Analyser	1

Appendix 1 – Detailed Specification of Requirements per Lot

AI-Based Clinical Analyser	1
Digital Microscopes	4

Equine Palpation / Radiology Limb Trainer

The **Equine Palpation / Radiology Limb Trainer** is required to support veterinary nursing, animal care and equine studies training in limb anatomy, palpation, joint movement, radiographic positioning and clinical assessment skills.

Key requirements include:

- Fully articulated equine limb skeleton with radiodense bone material suitable for radiographic visualisation.
- Movement at the carpus and fetlock joints.
- Palpable superficial and deep flexor tendon unit towards its insertion.
- Palpable suspensory apparatus and pastern joint landmarks.
- Palpable intercarpal, radiocarpal, fetlock and coffin joints.
- Life-like soft silicone skin to provide realistic tactile feedback.
- Suitable for teaching equine limb anatomy, palpation, radiology positioning and clinical examination.
- Durable, cleanable and suitable for repeated classroom, skills laboratory and assessment use.
- Include any required stand, support frame, positioning aids, accessories, user guides, care instructions and storage materials.
- Delivery, set-up, handover, staff guidance/training, warranty, support and replacement parts availability must be included.

Tenderers should confirm the make/model, anatomical structures represented, radiodense/radiography compatibility, joint movement functionality, tendon and ligament palpation features, skin material, accessories included, cleaning/storage requirements, warranty, support arrangements and any consumables or replacement parts required.

Decommissioned Dental X-Ray Machine

The **Decommissioned Dental X-Ray Machine** is required for dental teaching, simulation, demonstration and learner familiarisation purposes only. The equipment must provide a realistic dental radiography training environment while being permanently decommissioned, non-operational and incapable of producing ionising radiation.

The successful tenderer shall supply, deliver, install, position, secure, demonstrate and hand over the equipment in accordance with the requirements of the Contracting Authority and all applicable safety, electrical, radiation protection, installation and site requirements.

Key requirements include:

- Dental X-ray machine suitable for education, demonstration, dental nursing training, dental radiography familiarisation and simulated clinical workflow training.
- Equipment must be permanently decommissioned, disabled or rendered non-functional so that it cannot emit ionising radiation under any circumstances.
- All radiation-generating capability must be removed, isolated, disabled or otherwise made safe by a competent person before delivery or installation.
- Tenderers must provide written confirmation/certification that the equipment is decommissioned, non-operational and incapable of producing ionising radiation.
- The equipment should retain a realistic appearance and user interface suitable for demonstrating patient positioning, operator positioning, arm movement, tube head positioning, receptor/sensor positioning, workflow and safe practice principles.
- Wall-mounted, floor-mounted, mobile or chair-mounted configuration may be proposed where suitable for the teaching space and approved by the Contracting Authority.
- Unit must include all brackets, fixings, mounting plates, supports, covers, cabling, accessories and installation materials required for safe and stable installation.
- All exposed parts, moving arms, joints, controls and mounting points must be safe, stable and suitable for repeated learner demonstration in an education environment.
- Equipment must be clean, hygienic, presentable, free from contamination, free from sharp edges and suitable for installation in dental or healthcare simulation training spaces.
- Where any electrical components remain, they must be safe, isolated where required, and compliant with relevant electrical safety requirements for educational display or demonstration equipment.
- The tendered solution must include delivery, unloading, positioning, installation, fixing, commissioning as a non-radiating teaching aid, safety checks, handover and staff familiarisation.
- Tenderers must identify all site requirements, including space, mounting surface, fixing requirements, access, power isolation, electrical requirements and any structural limitations.
- The unit must be labelled clearly as decommissioned, non-radiating and for training/simulation purposes only.
- Tenderers must provide user guidance, safety information, cleaning instructions, maintenance guidance and any decommissioning documentation relevant to the equipment.

- Warranty, technical support, installation workmanship guarantee and spare/replacement parts availability for non-radiating components must be provided where applicable.

Tenderers should confirm the make/model, original equipment type, condition, mounting method, dimensions, weight, installation requirements, decommissioning method, certification confirming non-radiating status, included accessories, cleaning requirements, maintenance requirements, warranty, support arrangements and any limitations or exclusions.

Anaesthetic Machine plus vaporiser and key

The **Anaesthetic Machine plus Vaporiser and Key** is required to support veterinary nursing, animal care and clinical simulation training in anaesthetic equipment familiarisation, safe set-up, monitoring, maintenance checks and scenario-based learning.

Key requirements include:

- Anaesthetic machine suitable for veterinary education, demonstration and supervised simulation training.
- Include compatible vaporiser and vaporiser key required for safe training use.
- Support teaching of anaesthetic machine components, gas flow, breathing systems, scavenging awareness, leak testing and pre-use safety checks.
- Suitable for use with veterinary manikins, task trainers or simulation scenarios.
- Include oxygen flowmeter, pressure gauges, breathing circuit connections, common gas outlet, reservoir bag connection and relevant control features, where applicable.
- Include safety features such as secure vaporiser mounting, clear controls, stable frame/trolley and appropriate warning labels or markings.
- Be clean, safe, stable, durable and suitable for repeated classroom, clinical skills and assessment use.
- Must comply with relevant Cork ETB health and safety, electrical, manual handling, storage and site requirements.
- Include all required hoses, connectors, tubing, breathing circuit components, manuals, user guides, care instructions and storage/transport materials.
- Delivery, set-up, testing, handover and staff guidance/training must be included.
- Warranty, technical support, maintenance guidance, service options and replacement parts availability must be provided.

Tenderers should confirm the make/model, vaporiser type, vaporiser key supplied, gases supported, flowmeter range, breathing system compatibility, safety features, included accessories, cleaning and maintenance requirements, delivery/set-up requirements, warranty, support arrangements and any consumables or replacement parts required.

Clinical Examination Tables

The **Clinical Examination Tables** are required to support veterinary, animal care, healthcare or clinical skills teaching, examination, treatment demonstration, radiography-related training and practical assessment within Cork College of FET environments.

Key requirements include:

- Clinical examination table suitable for repeated education, demonstration and supervised practical use.
- Dimensions approximately **116 x 55 x 84.15 cm**, including static feet, or equivalent size suitable for the intended training environment.
- Minimum **150 kg static load capacity**.
- Available with **mobile or static base** options to suit site requirements.
- Optional **lead-lined tabletop or lead-lined option** for radiography-related teaching environments, where required.
- Optional integrated or compatible weighing scales.
- Optional scales must support a weight range of **0–145 kg** with **50 g increments**.
- Optional **six tie-down cleats** or equivalent restraint/accessory points to support safe positioning during training use.
- Durable, stable, cleanable and suitable for repeated use in clinical, veterinary, animal care or simulation environments.
- Suitable for safe positioning, examination, handling, teaching demonstration and practical skills assessment.
- Include all required fittings, feet/castors, brakes where mobile, accessories, user guides, care instructions and installation materials.
- Delivery, installation/set-up, testing, handover and staff guidance/training must be included.
- Warranty, technical support, maintenance options and replacement parts availability must be provided.

Tenderers should confirm the make/model, dimensions, load capacity, mobile/static base option, lead-lined option, scale option and accuracy, tie-down cleats/accessory points, materials/finish, cleaning requirements, included accessories, delivery/set-up requirements, warranty, support arrangements and any optional extras or recurring costs.

Clinical Examination and Radiography Table with Stand

The **Clinical Examination and Radiography Table with Stand** is required to support veterinary, animal care, healthcare and clinical skills teaching in patient positioning, examination, radiography workflow, cassette/detector placement and practical assessment.

Key requirements include:

- Compact steel X-ray table system suitable for education, demonstration and supervised radiography-related training.
- Approximate dimensions **1600 mm x 630 mm x 780 mm** (length/width/height), or equivalent suitable size.
- Include stand or support structure required for safe, stable and practical use.
- Movable Bucky tray lengthways to support flexible positioning and radiographic teaching.
- Suitable for use with analogue cassettes, CR cassettes and most digital detectors.
- Detector/cassette compatibility up to approximately **475 mm x 475 mm x 30 mm**.
- Variable focal film distance (FFD) capability, where applicable, to support radiographic positioning practice.
- Durable, stable, cleanable and suitable for repeated classroom, clinical skills and assessment use.
- Suitable for teaching examination, positioning, patient handling, anatomical alignment, radiographic workflow and equipment familiarisation.
- Include all required table components, stand, Bucky tray, fixings, accessories, user guides, care instructions and installation materials.
- Delivery, installation/set-up, testing, handover and staff guidance/training must be included.
- Warranty, technical support, maintenance options and replacement parts availability must be provided.

Tenderers should confirm the make/model, dimensions, materials, load capacity, Bucky movement, cassette/CR/detector compatibility, detector size limits, FFD capability, stand/support arrangement, cleaning requirements, included accessories, delivery/set-up requirements, warranty, support arrangements and any optional extras or replacement parts required.

Surgical Instruments (General and Orthopaedic Sets)

The **Surgical Instruments – General and Orthopaedic Sets** are required to support veterinary nursing, animal care and clinical skills training in instrument identification, safe handling, surgical preparation, aseptic technique, theatre workflow and supervised practical assessment.

Key requirements include:

- General and orthopaedic surgical instrument sets suitable for education, demonstration and supervised learner practice.
- Sets must include **Babcock forceps, Titanium Castroviejo needle holders, Finochietto retractor, Cone retractor, West retractor, Gouge, Stille Luer bone rongeurs and Fraiser suction**, or equivalent instruments.
- Instruments must support teaching of surgical instrument recognition, selection, safe handling, passing technique, sterile field awareness and procedural workflow.

- Orthopaedic instruments must support teaching of bone, joint and soft tissue procedure familiarisation in a non-clinical training environment.
- Instruments must be durable, corrosion-resistant, cleanable and suitable for repeated classroom, skills laboratory and simulation use.
- Sets should be supplied in organised trays, cases or storage systems to support inventory control, teaching preparation and safe storage.
- Include full instrument inventory lists, user guidance, care and cleaning instructions, and any required accessories or consumables.
- Delivery, inspection, handover and staff guidance/training must be included.
- Warranty, support, maintenance guidance and replacement instrument availability must be provided.

Tenderers should confirm the make/model, full instrument list for each set, instrument grade/materials, intended training use, tray/storage arrangements, cleaning and care requirements, warranty, support arrangements, replacement instrument availability and any optional instruments, consumables or accessories required.

Life Size 3D Anatomy Horse Model

The **Life Size 3D Anatomy Horse Model** is required to support veterinary nursing, animal care, equine studies and related practical teaching in equine anatomy, physiology, clinical assessment, palpation, body systems and anatomical orientation.

Key requirements include:

- Life-size or near life-size 3D equine anatomy model suitable for education, demonstration and learner engagement.
- Provide realistic representation of external and internal equine anatomy, including skeletal, muscular and key organ/body systems where applicable.
- Support teaching of anatomical landmarks, body systems, clinical assessment, palpation, positioning and veterinary/equine care principles.
- Suitable for tutor-led demonstration, small-group learning, learner self-directed study and practical assessment.
- Durable, stable, cleanable and suitable for repeated use in classroom, skills laboratory, veterinary nursing or equine studies environments.
- Include labelled or identifiable anatomical structures to support teaching and revision.
- Include removable, interactive or layered anatomical components where available.
- Be suitable for safe display, handling and movement within teaching spaces.
- Include all required stand, base, supports, accessories, user guides, teaching resources, care instructions and storage/transport materials.

- Delivery, installation/set-up, testing, handover and staff guidance/training must be included.
- Warranty, technical support, maintenance options and replacement parts availability must be provided.

Tenderers should confirm the make/model, dimensions, anatomical systems represented, level of detail, labelled/removable components, materials/finish, stand or mounting requirements, cleaning/storage requirements, included teaching resources, warranty, support arrangements and any replacement parts or consumables required.

Emily K9 Positioning Mannikin or equivalent

The **Emily K9 Positioning Mannikin, or equivalent**, is required to support veterinary nursing, animal care and radiography-related training in safe canine handling, positioning, restraint awareness, anatomical orientation and practical assessment.

Key requirements include:

- Life-size or realistic canine positioning mannikin suitable for veterinary education and supervised learner practice.
- Support training in correct positioning for clinical examination, nursing care, radiography preparation and procedural simulation.
- Provide realistic canine body shape, anatomical landmarks and limb positioning to support safe handling and assessment skills.
- Suitable for practising lateral, dorsal, ventral and other common positioning techniques, where applicable.
- Durable, stable, cleanable and suitable for repeated classroom, skills laboratory and practical assessment use.
- Suitable for individual, small-group and tutor-led demonstration.
- Support safe learner practice without the use of live animals.
- Include any required positioning aids, supports, restraints, carry/storage materials, user guides and care instructions.
- Delivery, set-up, testing, handover and staff guidance/training must be included.
- Warranty, support, maintenance options and replacement parts availability must be provided.

Tenderers should confirm the make/model, dimensions, weight, anatomical features, positioning capability, radiography training suitability, materials/finish, cleaning and storage requirements, included accessories, warranty, support arrangements and any consumables or replacement parts required.

Critical Care Jerry or equivalent

The **Critical Care Jerry, or equivalent**, is required to support veterinary nursing, animal care and clinical skills training in canine emergency care, critical care assessment, patient monitoring, positioning, handling and scenario-based practical learning.

Key requirements include:

- Realistic canine critical care manikin suitable for veterinary education, demonstration and supervised learner practice.
- Support training in patient assessment, emergency response, critical care nursing and clinical decision-making.
- Suitable for practising safe handling, positioning, restraint awareness and preparation for treatment or monitoring.
- Provide realistic canine body form, anatomical landmarks and clinical presentation suitable for tutor-led scenarios.
- Support use with relevant veterinary equipment, monitoring devices, bandaging, oxygen therapy, fluid therapy or simulated treatment workflows, where applicable.
- Durable, stable, cleanable and suitable for repeated classroom, skills laboratory and assessment use.
- Suitable for individual, small-group and tutor-led demonstration.
- Support safe learner practice without the use of live animals.
- Include any required accessories, positioning aids, supports, user guides, care instructions and storage/transport materials.
- Delivery, set-up, testing, handover and staff guidance/training must be included.
- Warranty, support, maintenance options and replacement parts availability must be provided.

Tenderers should confirm the make/model, dimensions, weight, anatomical features, clinical skills supported, compatibility with veterinary monitoring or treatment equipment, materials/finish, cleaning and storage requirements, included accessories, warranty, support arrangements and any consumables or replacement parts required.

Critical Care Fluffy or equivalent

The **Critical Care Fluffy, or equivalent**, is required to support veterinary nursing, animal care and clinical skills training in feline emergency care, critical care assessment, patient monitoring, handling, positioning and scenario-based practical learning.

Key requirements include:

- Realistic feline critical care manikin suitable for veterinary education, demonstration and supervised learner practice.
- Support training in patient assessment, emergency response, critical care nursing and clinical decision-making.

- Suitable for practising safe feline handling, positioning, restraint awareness and preparation for treatment or monitoring.
- Provide realistic feline body form, anatomical landmarks and clinical presentation suitable for tutor-led scenarios.
- Support use with relevant veterinary equipment, monitoring devices, bandaging, oxygen therapy, fluid therapy or simulated treatment workflows, where applicable.
- Durable, stable, cleanable and suitable for repeated classroom, skills laboratory and assessment use.
- Suitable for individual, small-group and tutor-led demonstration.
- Support safe learner practice without the use of live animals.
- Include any required accessories, positioning aids, supports, user guides, care instructions and storage/transport materials.
- Delivery, set-up, testing, handover and staff guidance/training must be included.
- Warranty, support, maintenance options and replacement parts availability must be provided.

Tenderers should confirm the make/model, dimensions, weight, anatomical features, clinical skills supported, compatibility with veterinary monitoring or treatment equipment, materials/finish, cleaning and storage requirements, included accessories, warranty, support arrangements and any consumables or replacement parts required.

Biochemistry Analyser

The **Biochemistry Analyser** is required to support veterinary nursing, animal care, healthcare science and clinical skills training in sample analysis, diagnostic workflow, result interpretation, quality control and laboratory-based practical learning.

Key requirements include:

- Bench-top or compact biochemistry analyser suitable for education, demonstration and supervised practical training.
- Capable of analysing relevant blood, serum, plasma or other appropriate sample types, where applicable.
- Support commonly taught biochemistry parameters such as liver, kidney, electrolyte, metabolic and general health profiles, where available.
- Provide clear, reliable and timely results suitable for teaching diagnostic reasoning and case-based learning.
- Include user-friendly controls, display/interface, software and reporting functionality suitable for tutor and learner use.
- Support quality control, calibration, maintenance checks and safe laboratory workflow training.
- Be suitable for repeated use in veterinary, animal care, healthcare science or clinical skills laboratory environments.

- Include all required analyser hardware, software, licences, starter reagents, controls, calibration materials, sample cups/rotors/cartridges, printer or data export functionality, power supplies and accessories required for full operational use.
- Must comply with Cork ETB ICT, electrical, laboratory safety, infection prevention, data protection and health and safety requirements.
- Delivery, installation/set-up, configuration, testing, commissioning, handover and staff training must be included.
- Warranty, technical support, maintenance options, software/firmware updates, consumables supply and replacement parts availability must be provided.

Tenderers should confirm the make/model, sample types supported, test menu/parameters, throughput, sample volume requirements, reagent/rotor/cartridge requirements, calibration and quality control arrangements, software/reporting functionality, ICT/data export requirements, cleaning and maintenance requirements, warranty, support response times, consumables, replacement parts and any recurring licence, reagent, maintenance or support costs.

Automated Haematology Analyser

The **Automated Haematology Analyser, or equivalent**, is required to support veterinary nursing, animal care, healthcare science and clinical skills training in blood sample analysis, diagnostic workflow, quality control, result interpretation and laboratory-based practical learning.

Key requirements include:

- Bench-top or compact automated haematology analyser suitable for education, demonstration and supervised practical training.
- Capable of analysing relevant whole blood samples, including veterinary and/or human training samples as applicable.
- Support core haematology parameters, including red blood cell, white blood cell and platelet analysis, haemoglobin, haematocrit and differential counts, where available.
- Provide clear, reliable and timely results suitable for teaching diagnostic reasoning, case-based learning and laboratory workflow.
- Include user-friendly controls, display/interface, software and reporting functionality suitable for tutor and learner use.
- Support calibration, quality control, maintenance checks and safe laboratory workflow training.
- Be suitable for repeated use in veterinary, animal care, healthcare science or clinical skills laboratory environments.
- Include all required analyser hardware, software, licences, starter reagents, controls, calibration materials, sample cups/tubes, printer or data export functionality, power supplies and accessories required for full operational use.
- Must comply with Cork ETB ICT, electrical, laboratory safety, infection prevention, data protection and health and safety requirements.

- Delivery, installation/set-up, configuration, testing, commissioning, handover and staff training must be included.
- Warranty, technical support, maintenance options, software/firmware updates, consumables supply and replacement parts availability must be provided.

Tenderers should confirm the make/model, sample types supported, species/application suitability, parameters measured, throughput, sample volume requirements, reagent requirements, calibration and quality control arrangements, software/reporting functionality, ICT/data export requirements, cleaning and maintenance requirements, warranty, support response times, consumables, replacement parts and any recurring licence, reagent, maintenance or support costs.

AI-Based Clinical Analyser

The **AI-Based Clinical Analyser** is required to support veterinary nursing, animal care, healthcare science and clinical skills training in diagnostic analysis, clinical decision support, sample interpretation, workflow familiarisation and case-based learning.

Key requirements include:

- AI-enabled or automated clinical analyser suitable for education, demonstration and supervised practical training.
- Support analysis and/or interpretation of relevant clinical sample data, laboratory results, patient parameters or diagnostic outputs, as applicable.
- Provide clear, reliable and timely results or interpretation support suitable for teaching diagnostic reasoning and clinical decision-making.
- Include user-friendly interface, display/software, reporting functionality and workflow suitable for tutor and learner use.
- Support case-based learning, comparison of results, trend review, quality control and safe laboratory or clinical workflow training.
- Include appropriate data security, user access controls, auditability and compliance with Cork ETB ICT, cyber security and data protection requirements.
- Be suitable for use in veterinary, animal care, healthcare science, clinical skills or simulation laboratory environments.
- Include all required hardware, software, AI functionality, licences, user accounts, calibration/quality control materials, starter consumables, power supplies and accessories required for full operational use.
- Delivery, installation/set-up, configuration, testing, commissioning, handover and staff training must be included.
- Warranty, technical support, maintenance options, software/firmware updates, consumables supply and replacement parts availability must be provided.

Tenderers should confirm the make/model, AI or analytical functionality, sample or data types supported, parameters/outputs provided, validation/quality control arrangements, software/reporting features, ICT/data export requirements, data protection controls, training

included, warranty, support response times, consumables, replacement parts and any recurring licence, subscription, maintenance, AI model update or support costs.

Digital Microscopes

The **Digital Microscopes** are required to support veterinary nursing, animal care, healthcare science, biology, laboratory skills and clinical skills training in specimen examination, image capture, digital display, learner observation and practical assessment.

Key requirements include:

- Digital microscope suitable for education, demonstration and supervised learner practice.
- Support examination of prepared slides, biological samples, laboratory specimens and teaching materials, where applicable.
- Provide clear magnification, image quality and illumination suitable for classroom, laboratory and assessment use.
- Include integrated or compatible digital camera functionality for live viewing, image capture and display.
- Support connection to laptop, PC, display screen, interactive board or learning platform, where required.
- Include user-friendly software for image viewing, capture, annotation, measurement, storage and export, where available.
- Suitable for tutor-led demonstration, individual learner use, small-group teaching and practical assessment.
- Durable, stable, cleanable and suitable for repeated use in education and laboratory environments.
- Include all required objectives, eyepieces, camera/software, power supplies, cables, calibration tools, dust covers, manuals and accessories required for full operational use.
- Must comply with Cork ETB ICT, electrical, laboratory safety, data protection, accessibility and health and safety requirements.
- Delivery, installation/set-up, configuration, testing, handover and staff training must be included.
- Warranty, technical support, software/firmware updates, maintenance options and replacement parts availability must be provided.

Tenderers should confirm the make/model, magnification range, optical configuration, camera resolution, illumination type, connectivity, software functionality, image capture/export options, compatibility with Cork ETB ICT devices, included accessories, cleaning/maintenance requirements, warranty, support response times and any recurring licence, software, maintenance or support costs.