

VSA Technology Training – Project Report 2017 – 2018

Tom Hallahan, Tess Vawser Epworth HealthCare

Epworth HealthCare was successful in their tender to deliver simulation technology training across Victoria on behalf of the Victorian Simulation Alliance (VSA). In 2017 the Clinical Education and Simulation Centre (CESC) team at Epworth committed to developing 3 half day workshops on topics determined by a targeted survey of simulation technologists. With the addition of a technical workshop developed by NHET-Sim, it gave a flexible option to have 4 half day workshops.

There were a number of different combinations that could create full day sessions, depending on participant's areas of interest. Overall having 2 workshops in one day was the most popular format.

The workshops were conducted at various sites:

The NHET-Sim module S3, Technology-based simulators and simulations was delivered as part of the VSA Regional Symposium in Warrnambool and also at Richmond.

Moulage and Medical Terminology workshops were delivered at Richmond, Geelong and North Melbourne.

Manikin considerations was run as combined full-day programs at Richmond and Geelong

AV/IT considerations in Simulation workshops were delivered at Richmond and Geelong.

A total of 68 participants attended across 9 workshops, with attendance numbers varying from 2 – 18.

Evaluations collected were overwhelmingly positive, with an average rating of 4.6 on a scale of 5 on course satisfaction.

Outcomes:

At the commencement of the project, CESC ran a targeted survey of simulation staff across Victoria who were involved in simulation technology.

It highlighted that some of the people who needed this content were not technicians, but possibly nursing staff who were required to develop and deliver workshops, but also maintain and run equipment. This led to changing the name of the project to Simulation Technical Training, rather than Simulation Technician Training.

The survey also identified technical staff were wanting some education/ tuition on Medical Terminology, which was subsequently incorporated as a module in the Moulage workshop.

Experience showed that Moulage workshops are popular, and the objective of this particular workshop is how to create effective moulage quickly and cost effectively.

The evaluations received confirmed that this objective was achieved.

Reflections:

Challenges in developing relevant content across the topics included being able to compliment current available resources, such as NHET-Sim modules, not recreating the same content, and ensuring the workshops were flexible enough to cater for the participants needs.

It was identified in early workshop feedback that not all participants benefited from the Medical Terminology component of the Moulage workshop. This was always going to be a risk as some of the participants were clinicians. This was overcome by encouraging the clinicians in the group to assist non-clinicians in progressing through the activity.

Summary

Generally the workshops have been a successful addition to technical resources for simulation staff in Victoria. The team recommends that the content will need to be periodically reviewed with a view to ensuring that it stays relevant to the audience.

Appendices

Workshop Evaluation Summaries

1. Overall Session Evaluation AV IT considerations in Simulation 2018
2. Overall Session Evaluation Manniken Consideration 2018
3. Overall Session Evaluation Moulage and Medical Terminology 2018

VSA Technology Training - “AV/IT considerations in Simulation.”

Overall Session Evaluation Summary:

Three workshops were conducted over 2017/2018 with a total of 12 attendees.

1. Participants were asked to rate their overall satisfaction of the workshop on the scale below:

Poor		Average		Excellent
1	2	3	4	5

Overall average: was 4.4

2. Participants were asked to write the things they thought worked well in the session:

Discussion re AV and IT problems
Manikin maintenance was helpful. Great day-to-day skills.
Discussions about pros and cons of other people’s systems.
Made me realise the importance of the sim tech role in the delivery of simulation-based education.
Good presenter
Back of house tour and how the equipment worked
Interesting hearing about other people’s issues with AV and IT and how this applies to our centre. Pros and cons of different software in scenarios
Demonstration of and discussion about of the AV system
Good to see Epworth’s equipment and technology. Useful tips and suggestions to run sim sessions
Discussions with others about their issues
Discussions with other providers, talking through other’s issues
Video recording comparison
Interesting session as new to sim. Practical demonstration well worthwhile
Discussion, tour, tech demonstration, diversity in attendees contributing, group activities, generous catering
Small group, aimed at all disciplines, all were made to feel welcome, informative, professional and knowledgeable presenter

3. Participants were asked to write the things they thought could be improved with the session:

None, excellent session.
Would have liked to hear more views from different people.
More on issues within simulations, manikin issues
Discuss common problems people run into using IT and software in scenarios
Give an update on market updates and more features of the system
A short housekeeping intro
Run a scenario where there is a problem and get participants to troubleshoot it
Maybe more time

4. Participants were asked to list their take home message from the workshop:

Complex doesn't necessarily equal better
Everything we do as techs in preparation and delivery of scenarios is essential.
AV systems all have different pros and cons. There are no perfect systems.
Don't be afraid to take care of the manikins and perform minor repairs.
Maybe research new IT/AV equipment
Loved the comparison between expensive and cheap filming options
Considering what IT model will be appropriate in your scenario
Tagging and debriefing systems not that important
Consult with IT and AV specialists about what you are hoping to achieve and the equipment you will need to use in your area
Speaking with the right people and other sim providers about equipment and technology prior to purchase
Consider what you need, not what you want, expensive equipment is not necessarily better. Consider cheaper alternatives
Gained a lot of valuable information through group discussions
I have a lot of information to pass onto AV/SIM techs who could not be here
Involve the IT department from the start, and keep in contact with them

VSA Technology Training - “Manikins Considerations”

Overall Session Evaluation Summary:

Three workshops were conducted over 2017/2018 with a total of 20 attendees.

1. Participants were asked to rate their overall satisfaction of the workshop on the scale below:

Poor		Average		Excellent
1	2	3	4	5

Overall average: was 4.2

2. Participants were asked to write the things they thought worked well in the session:

Introduction on simulation helpful
Useful look at different manikins and task trainers
Staff members knowledgeable and helpful, informative content , opportunity to see different equipment and technology
Excellent knowledge sharing, good showcase of Epworth sim centre, generous catering
Ability to ask questions, open format, ability to look at various equipment
Great networking and discussion, interesting to see different equipment, informative overview
Interesting knowledge into basics of sim, enjoyed looking at equipment and thinking how it can be used in a session
Good discussions about equipment, what’s fit for purpose
Relaxed environment where questions could be asked, exposure to a variety of simulation tools
Interesting discussion about manikins and fidelity
Good introduction, seeing the types of trainers
Learning manikin internals, how to use, troubleshooting
Different types of achieving physiological feedback
To go through each of the manikins and their capabilities
The practical sessions
Tour of sim facilities
Explanation of manikin function
Discussion of business case behind manikins

Good take home messages
Be aware of the disadvantages of some manikins
Able to see the mechanisms of low, medium and high fidelity manikins
I enjoyed getting exposure to the various manikins and what they can do
Feel more confident to pull apart manikin to troubleshoot
Seeing what manikins were capable of
Practical session about how the manikins work
Pulling the manikins apart
Sim team able to answer questions about all manikins

3. Participants were asked to write the things they thought could be improved with the session:

Exercise on which manikins for which task wasn't relevant to me
More time to look at various equipment, ability to request equipment
How do you comply with OHS when moving manikins
Perhaps more time to explore
Supply high level table of manikins available in the market and their features
Turning on manikins and demonstrating its full use
More opportunity to practice
Only brief examination of each system. Needs more in depth look at smaller number of manikins
I think it's best to have a session dedicated for medical/clinical people, and another for technicians
Costings of manikins
Possibly more involved in the set-up of computers and observations and how to operate
Hands on setting up of technology would have been good
How to use computer to adjust parameters
Didn't need to spend time on manikin costs
Run through scenario
Background of manikins considerations to purchase
Costing and choice of manikins probably not needed.

4. Participants were asked to list their take home message from the workshop:

There are manikins for all situations; use the right one
There is unlimited potential in simulation, it is a very powerful educational tool
Great facility and knowledgeable presenter
Identify what you are trying to achieve when considering equipment to use or purchase
Look outside the square, found the morning interesting +++
Think who the audience is and what you need to run a good session
Equipment fit for purpose and bang-for-buck
Investigate what you require before purchase
Not a great deal except that Epworth has an extensive simulation centre
A better perspective of the way simulation works in other organisations
Don't be afraid to look inside the manikin
Call for help anytime
Objectives first, then scenario, then type of manikin
Exposure to opportunities and capabilities of simulation and manikins
Ensure objectives are met with the type of equipment
Need a list of manikins and equipment
Maintenance
Don't be afraid to explore manikins and take lots of pictures
Overall it's a great session to have. It's good to have seen how to open up manikins and see how they work
There are various manikins available but use the one which is enough to serve the purpose
Manikins are capable of more than I initially thought
Now know how to adjust manikin for chest compression resistance
Capability of manikins
Write scenario first
Take manikins apart to learn how they work and to troubleshoot
Capability of manikins
Think about objectives of session before choosing manikins

VSA Technology Training - “Moulage and Medical Terminology”

Overall Session Evaluation Summary:

Three workshops were conducted over 2017/2018 with a total of 33 attendees.

1. Participants were asked to rate their overall satisfaction of the workshop on the scale below:

Poor		Average		Excellent
1	2	3	4	5

Overall average: was 5

2. Participants were asked to write the things they thought worked well in the session:

Good to use different materials to create realistic wounds and burns etc.
Theory underlying moulage (fidelity)
A wide range of tools and consumables were available to try out
Moulage recipes were supplied
Explanation of terminologies was very good
I thought doing the moulage together was really good

3. Participants were asked to write the things you thought could be improved with the session:

I probably didn't need the medical terminologies component
It would be handy to do the moulage in a room with sink and paper towels

4. Participants were asked to list their take home message from the workshop:

Less is more
Think about what you are trying to achieve from the simulation and don't get distracted with other things e.g.: bleed vs VF
Moulage is very important for creating fidelity and the psychological aspects of learning
Moulage and scenario preparation would depend on who the participants are

Tess Vawser
Director of Clinical Education & Simulation
Epworth HealthCare
Phone: (03)9426 8620

Tess.Vawser@epworth.org.au

Tom Hallahan
Simulation Coordinator / Instructor
Epworth HealthCare
Phone: (03)9516 2530

Tom.Hallahan@epworth.org.au

