



## ARCKIT Flexi Workshop Project - Lesson 02 (OPTIONAL)

Arckit is a multi-award winning scaled freeform model system that allows architects and model enthusiasts to explore designs and bring ideas to life with speed and precision.

Lesson Two		Experience Level	Duration
Learn how to design digital Arckit models using SketchUp CAD software.		Intermediate	1 hour
<b>Note: the facilitator should have prior knowledge of SketchUp for this lesson.</b>			
Resources			
Lesson 02 introduction video Computer room, video playback facility, access to SketchUp software Optional: Notebooks and pencils, pre-built models <b>Kits: GO Plus / Arckit 90 for 1 person, Arckit 180 for 2 people, Arckit 360 for 3-4 people</b>			
Learning objectives			
1. Learn how to use SketchUp software alongside Arckit.			
2. Discuss how CAD can be used to produce CAM outcomes.			
3. Develop awareness of architectural design and planning.			
Key concepts			
Digital skills, problem solving, building methods			
Time	Activities		
5 mins	Introduction by the facilitator to SketchUp. Facilitator plays introduction video showing how Arckit components are used within SketchUp to create digital versions of Arckit models.		
10 mins	Progressing to CAM. Participants review the application of CAD to develop CAM outcomes, with a brief look at laser cutting and 3D printing. Review online Arckit Infiniti 3D component store and discuss the benefits of CAD/CAM in architectural modelling.		
20 mins	Practice CAD. Participants can use SketchUp to follow the on-screen tutorial and develop a simple model on screen. Headphones can be used to support independence and use the opportunity to personalize the pace of learning.		

25 mins	Technical drawing. Participants use SketchUp to design a finished digital model based on their ideas from Lesson 1.
Ext.	Participants can work through an additional SketchUp tutorial from the main software screen to further develop their own personal understanding and application of the software.

Further reading	
<p>NZIA: New Zealand institute of Architects Incorporated – <a href="http://www.nzia.co.nz">www.nzia.co.nz</a>  RIBA: The Royal Institute of British Architects – <a href="http://www.architecture.com">www.architecture.com</a>  RIAI: The Royal Institute of the Architects of Ireland – <a href="http://www.riai.ie">www.riai.ie</a>  AIA: The American Institute of Architects – <a href="http://www.aia.org">www.aia.org</a>  SketchUp CAD software: <a href="http://www.sketchup.com">www.sketchup.com</a></p>	