



**ACES**  
**RHINO-GRASSHOPPER ESSENTIALS**  
*The Must-Learn Platform to Kickstart Your Digital Journey*



**Date:** 17 & 18 August 2021 (Tue/Wed)  
**Duration:** 6.30 pm to 10.30 pm (4 hours x 2 days)  
**Mode of Delivery:** Classroom-based  
**Venue:** Seminar Room B2-01 at Yong Pung How School of Law @ SMU  
Singapore Management University, 81 Victoria Street Singapore 188065  
**CPD:** 6 PDU approved  
**Fee:** ACES Member \$168 per person  
Non-Member \$198 per person

Please complete your registration at  
<https://forms.gle/wevxozQ55Q2bhguN6>

**COURSE OBJECTIVE:**

Designed for anyone interested in acquiring the essential knowledge and skills required to begin Grasshopper to compliment other digital tools use for the purpose of automating our daily engineering tasks.

**Pre-Requisite**

Rhino 6 or above to be installed with own license in own laptop. Suitable for participants of all engineering backgrounds. No prior knowledge of Rhino or Grasshopper is needed.

**COURSE OUTLINE**

**Module 1**

- What is Rhino?
- What is Grasshopper?
- Understanding the Rhino/Grasshopper user interface
- Simple Grasshopper hands-on exercises
- Simple structural hands-on example

**Module 2**

- Recap from Module 1
- Simple M&E hands-on example
- Intermediate structural hands on example
- Plugins to Grasshopper



**Trainers:**



**Alistair Sargeant** is an Associate structural engineer at Arup. He has over 10 years' experience using Grasshopper to automate structural engineering workflows.



**Adrian Foo** is a structural engineer at Arup. He has the experience applying knowledge of Grasshopper in real project to streamline design workflows.

**Training Hours Breakdown:**

Date	Start Time	End Time	Module	Topics covered
Day 1 17 Aug (Tue)	6:30pm	7:30pm	Module 1	Introduction of Rhino & Grasshopper
	7:30pm	7:45pm	Break	
	7:45pm	9:15pm	Module 1	Simple exercise on Grasshopper
	9:15pm	9:30pm	Break	
	9:30pm	10:30pm	Module 1	Simple structure hands on
Day 2 18 Aug (Wed)	6:30pm	6:45pm	Module 2	Recap from Module 1
	6:45pm	7:45pm	Module 2	Simple M&E hands on
	7:45pm	8:00pm	Break	
	8:00pm	10:30pm	Module 2	Advance structure hands on