

infinityPV – Academic Workshop

infinityPV ApS gives you the opportunity to become experienced with scaled processing of printed solar cells. The manufacture of solar cells using printing techniques is an involved process where many steps enter. You will not be able to master it all at once, but we offer you to gain experience with many steps on the way from printing to testing and packaging the final product. You will return with solid know-how and we are of course always there to refocus your training in one or more areas that you were previously unfamiliar with or that you did not attend in your chosen workshop.



If you later on complete our entire series of training modules you will become a R2R master of printed solar cells.

Key highlights for the Academic Workshop:

- Learn the basics prior to attending through our e-learning courses
- Learn the basics of designing your solar cells for a given purpose
- Learn the basic materials science behind the active ingredients
- Learn about inks and preparation of inks for different printing methods
- Roll-to-roll print your electrode stack using a number of different printing and coating methods
- Test your printed solar cells using roll-to-roll methods
- Package your solar cells through roll-to-roll lamination.
- Test and analyze your solar cells using a number of techniques (solar simulator, LBIC...)



Training and learning

The Academic Workshop is comprised of a theoretical part that you need to attend online prior to the physical workshop. You can always go back to these at any later stage to refresh your memory. The physical workshop is comprised mainly of practical laboratory work, but it also has a few theoretical sessions dedicated to instruction on the use of the specific equipment and the safety associated with it. Upon arrival and before any practical work can begin you need to have signed the responsibility declaration that is issued to you upon registration for one of the workshops.

Practical work - what you get at the Academic Workshop

The table below outlines the content of the Academic Workshop. On our homepage you can see the different kind of workshops that we offer beside this Academic Workshop. To this workshop we have plucked specific steps from the processing of printed solar cells that we hope you will find relevant and interesting.

The workshop is action packed hands-on teaching that runs for 9 hours two days with a one-hour lunch break (lunch included). The course starts at 0800AM and finish at around 1700PM. Lunch, materials and expenses are included during the two days. Breakfast, dinner, accommodation and travel are not included.

	MATERIALS	PRINTING	PACKING	TR2RC
FLOW SYNTHESIS				
BATCH SYNTHESIS				
INK PREPARATION				
ROLL COATING AND PRINTING	✓			✓
OPV TEST DEVICES			✓	✓
PEROVSKITE TEST DEVICES				
R2R FLEXO PRINTING				
R2R ROTARY PRINTING		✓		
R2R SLOT-DIE COATING		✓		
R2R TESTING		✓		
ADHESIVES				
R2R LAMINATION			✓	
CHARACTERISATION				
LASER CUTTING				
CONTACTING				
ROBOTIC HANDLING				
ELECTRONICS AND IOT				
ISOS STABILITY TESTING				
FAILURE ANALYSIS				

Cost & registration:

Please send an e-mail to workshop@infinitypv.com for registration - including all your details, participant name, invoice address, mobile phone number and VAT number (for Europe). We will send an invoice and once paid you will be given access to our online teaching system where you will need to complete the e-learning courses and pass the exams prior to the workshop itself. You will also be issued with a registration form that needs to be signed, scanned and mailed to us prior to the workshop or handed to us at the very beginning of the workshop. The workshops qualify for ECTS points if you are a university student (we recommend master or PhD level).