

## **EL Lamp Printing Workshop Held at: - Gwent Group Ltd**

The aim of this workshop is to give the participant the knowledge of the essentials of the requirements for manufacturing successful EL Lamps.

The workshop will include the following aspects:

- 1) Overview of EL lamp design and the function of the different layers, and the substrate.
- 2) Overview of the requirements for setting up a screen printer and successfully printing the various layers required to manufacture an EL Lamp.
- 3) Overview of the drying/curing required to process the screen printed EL Lamp layers.
- 4) Overview of the encapsulation process required to extend the lifetime of the EL Lamps.
- 5) Overview of test methods used to evaluate EL lamps.

The above aspects will be discussed in detail with practical demonstrations where the trainee will be given the opportunity to carry out all of the steps required to manufacture a successful EL lamp. (See reverse for course overview).

<b>Cost:</b>	<b>£750 per person</b>
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# GWENT GROUP

ADVANCED MATERIAL SYSTEMS

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Subject	Aspect
<b>Introductions</b>	Overview of The Gwent Group: Including areas of expertise and types of inks available
<b>Overview of the requirements of EL Lamp design:</b>	Different ways of building EL Lamps
	Requirements for the different formulations/layers required and why they are used including the substrate
	Dimensions required for printing the multi layer design required to manufacture an EL Lamp
<b>Pastes</b>	Quality Control Testing
	Viscosity Measurements
	Solids Content Measurement
	Paste preparation prior to printing
<b>Printing</b>	Overview of screen printing
	Practical Demonstration of Screen Printer set up
	Display of different curing methods.
<b>Printing EL Lamp Testing</b>	Measurement techniques
	1) Simple Lux meter
	2) Spectrophotometer
	3) Measurement of colour output, and colour mapping

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 Gwent Biotechnology Systems Ltd.  
 Gwent Sensors Ltd.  
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