



*LAST –Ireland*

**Category; A,B,C,D Species :** *Species*

*This is to certify that*  
*Peter Nowlan*

attended a course and passed an assessment of the course, based on the  
\*\*EU EWG guidelines contained in the framework document, which fulfill the  
requirements under article 23 and 24 of directive 2010/63 EU for the  
categories of persons stated below.#

<i>Module</i>	<i>Title of Core Module</i>
1	<i>National Legislation (Irish SI 543/12)</i>
2	<i>Ethics, Animal welfare and the 3 Rs ( level 1)</i>
3.1	<i>Basic and Appropriate Biology (species noted on certificate )</i>
4	<i>Animal care, health and management ( species noted on certificate )</i>
5	<i>Recognition of pain, suffering and distress ( species noted on certificate )</i>
6.1	<i>Humane methods of euthanasia ( theory)</i>
7	<i>Minimally invasive procedures without anaesthesia.</i>
9	<i>Ethics, Animal welfare and the 3 Rs ( level 2)</i>
10	<i>Design of procedures and projects ( level 1)</i>
11	<i>Design of procedures and projects ( level 2)</i>
	<b><i>Title of Practical Module</i></b>
3.2*	<i>Basic and appropriate biology ( species noted on certificate )</i>
8 *	<i>Minimally invasive procedures without anaesthesia</i>
6.2 *	<i>Humane methods of euthanasia</i>
	<b><i>Title of Additional Module</i></b>
20	<i>Anaesthesia for minor procedures</i>
22	<i>Principles of surgery</i>
30	<i>Introduction to local environment</i>

\*\* *extract from* National Competent Authorities for the implementation of Directive 2010/63/EU on the protection of animals used for scientific purposes A working document on the development of a common education and training framework to fulfill the requirements under Articles 23 and 24 - Replacing consensus document I of 22-23 March 2012 – 18/19 Sept 2013

\* These units are not taught in the module but are taught and demonstrated when applicable in each individual institute.

**Signed**

**Peter F. Nowlan** (Course organiser)

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#Category A: Persons carrying out procedures on animals, Category B: Persons designing procedures and projects  
Category C: Persons taking care of animals, Category D: persons performing euthanasia