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DIAGNOSIS Project

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Syllabus for training “Building Diagnosis Expert”

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**C1 Intensive course on structural, energy and environmental diagnosis methodology and tools. From 5th to 9th March 2018
UPC. Barcelona, Spain**



DIAGNOSIS Project. Indicative Syllabus

	Time in hours		
	Minimum	Medium	Maximum
Instrumental complements for diagnosis			
✓ History of the construction and documentation of the building	2	6	20
✓ Legal and regulatory framework	1	3	5
✓ Building Information Modeling (BIM)	3	10	30
✓ Graphic survey of buildings and representation techniques	2	8	20
✓ Sampling and representativeness criteria	1	2	5
✓ Tools and auxiliary techniques	1	3	15
<i>Instrumental complements for diagnosis</i>	10	32	95
Analysis elements			
✓ Structure. Mechanical resistance and stability	6	20	70
✓ Energy efficiency	6	20	70
✓ Dampness, moisture and humidity	2	6	10
✓ Safety in case of fire	0,5	2	5
✓ Safety in use	0,5	2	5
✓ Protection against noise	0,5	2	5
✓ Accessibility	0,5	2	5
✓ Water, sanitation, downpipes, drainages, electricity and other services	0,5	2	5
✓ Habitability	0,5	2	5
✓ Hygiene, health and environment quality	1	6	15
<i>Analysis elements</i>	18	64	195
Final diagnosis			
✓ Conclusions and recommendations	1	2	5
✓ Final reports. Different kinds and targets	1	2	5
<i>Final diagnosis</i>	2	4	10
TOTAL TRAINING HOURS	30	100	300

National Occupational Standards for Home inspectors

Unit 1

Work in an effective and professional manner

- Element 1.1 Develop and maintain effective working relationships
- Element 1.2 Manage your own time and resources
- Element 1.3 Develop yourself to improve your performance
- Element 1.4 Conduct work in a professional and ethical manner

Unit 2

Contribute to the safety and security of people and property

- Element 2.1 Contribute to the maintenance of health and safety at work
- Element 2.2 Contribute to the security of self, colleagues and others
- Element 2.3 Contribute to the security of property
- Element 2.4 Contribute to the security of information

Unit 3

Prepare for Home Inspections

- Element 3.1 Agree and confirm instructions to carry out a Home Inspection
- Element 3.2 Investigate relevant matters relating to the property

Unit 4

Undertake Home Inspections

- Element 4.1 Inspect property for condition
- Element 4.2 Make complete and comprehensive records of findings
- Element 4.3 Determine condition ratings
- Element 4.4 Collate information for the assessment of energy efficiency

Unit 5

Prepare and disseminate Home Condition Reports

- Element 5.1 Produce complete and comprehensive Home Condition Reports
- Element 5.2 Make completed Home Condition Reports available and maintain own records

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Element 4.4 Collate information for the assessment of energy efficiency	
Performance Criteria	Knowledge and Understanding
You must be able to:	You must know and understand:
1 collate information for assessment of the energy efficiency of the property	(a) the purpose behind government approved procedures for assessing the energy efficiency of a property
2 keep your notes and records legible, complete and accurate	(b) the factors which are relevant to the determination of the energy efficiency rating of a property
3 follow the correct procedures for collecting information to enable the energy efficiency of the property to be determined	(c) the assumptions that are made in determining energy efficiency ratings
4 provide practical advice based on the ratings and recommendations provided by the energy efficiency report	(d) the factors that are not deemed to affect energy efficiency ratings
	(e) how to collate information required to assess the energy efficiency of a property
	(f) the importance of keeping your records legible, complete and accurate
	(g) the range of government authorised energy rating organisations
	(h) procedures for processing information relating to the energy efficiency of the property
	(i) how the energy efficiency ratings are affected by changes in the physical properties of the fabric of the building
	(j) how to evaluate the ratings and recommendations to provide practical advice

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Element 4.4 Collate information for the assessment of energy efficiency

Scope

This Element requires that you:

- A. identify and gather the following **information** necessary for calculating the energy efficiency of the property:
 - (i) levels of thermal insulation
 - (ii) types and efficiency of the heating system
 - (iii) ventilation

- B. collate information for a broad range of **properties** that vary in terms of:
 - (i) age
 - (ii) type
 - (iii) construction
 - (iv) size

Open debate concerning the disciplines and subjects to be considered for the training and the syllabus for the “Building Diagnosis Expert”