



TECHNICAL ACADEMY

Get the know-how with the Saint-Gobain

Technical Academy

Dublin & Kingscourt

NEW
nZEB
course



Prospectus





Contents

Introduction	3
nZEB in Practice	4-5
Airtightness	6
Advanced Airtightness Skills	7
Acoustics in Buildings	8
Fire Performance in Buildings	9
Drylining Systems (Partitions & Wall Linings) for Installers and Supervisors	10
Drylining Systems (Ceilings) for Installers and Supervisors	11
Northern Ireland Building Regulations	12
ROI Building Regulations & Compliance	13
Gyproc Plaster Product Application	14
Renovation Solutions	15
External Wall Insulation (EWI)	16
CPD Courses	17
Find Us	18
Sign Up Details	19
Technical Support	20
Notes	





TECHNICAL ACADEMY

Saint-Gobain in Ireland

Saint-Gobain, the world leader in the habitat and construction market, creates and delivers innovative and high performance solutions to enhance our habitat and our daily life. As one of the world's top 100 innovators, Saint-Gobain spends €400m a year on R&D globally, tackling some of the biggest challenges of our time. One in five products manufactured by Saint-Gobain did not exist 5 years ago.

Saint-Gobain Technical Academies

Training at the Technical Academies is provided by experts from a number of Saint-Gobain businesses in Ireland, including Gyproc, Isover and Weber. With the ability to cover a wide range of topics across energy, fire and sound in buildings, all the Academy's trainers are experts in their respective fields. Courses are targeted to provide awareness, knowledge and up-skilling opportunities to a range of experienced industry professionals, including contractors, builders' merchants and architects, as well as new recruits to the industry.

The Saint-Gobain Technical Academies have also been designed to help combat the industry's skills shortage and provide training on new technologies and systems, as well as up-to-date information around legislation.

As Building Regulations become tighter, industry professionals are increasingly finding themselves challenged with demonstrating their understanding and ability in the use of existing products and systems. As technologies and requirements change, new skills and knowledge need to be developed. The Academies focus on equipping building professionals with key knowledge about the sustainable building agenda as well as the vital skills needed to deliver it.

The first Technical Academy opened in May 2010 in Kingscourt, Co. Cavan. The purpose built training facility with dedicated display and demonstration areas is a more skills focused Academy that can train up to 20 people per day. The Academy covers a wide range of skills including the application of airtightness, drylining, plastering and external wall insulation. November 2014 saw the opening of the second Technical Academy in Kilcarbery Business Park, Dublin, which boasts an increased 40 seat classroom and enhanced display facility. Courses run from the Dublin Academy are targeted at developing attendee's knowledge across a wide range of subjects and has been extremely popular with architects, engineers and design professionals. Courses are continually being developed and expanded to keep up with the changing regulatory and building design requirements.



TECHNICAL ACADEMY

nZEB In Practice

Understand the new standard for building energy efficiency

Course Description

A one-day course undertaken in the Saint-Gobain Technical Academy, Dublin.

Attendees of the course will attain a comprehensive overview of the fundamental requirements to achieve compliance with nZEB building energy standards. The course forms part of a new three-part suite of modules offered by the Saint-Gobain Technical Academy. Completion of all three modules provides a comprehensive platform for candidates to go forward and attain further recognition as a Certified Passive House Tradesperson.

Covering all aspects of the required building energy performances and how compliance needs to be demonstrated, the nZEB course recognises the benefits of ensuring a primarily fabric first approach to residential buildings balanced with the buildings heating and mechanical services, including contribution from renewable sources. Key topics include Insulation, Airtightness, Thermal Bridging and Ventilation,

ensuring that attendees understand the importance of integrating all elements in a coherent manner to offer high quality comfortable buildings with good levels of air quality without causing undue risks with overheating or condensation.

Other course details:

Location: Saint-Gobain Technical Academy, Kilcarbery Business Park, Dublin

Duration: 1 day

Start time: 09:00

Finish time: 16:30

Lunch: Buffet lunch and refreshments will be provided

Attendance requirements

Attendees are expected to have a basic knowledge of construction principles



Course objectives

- **The nZEB concept:** Understand the concept of nZEB: How this relates to previous Building Regulation requirements and a comparison of nZEB with Passive House requirements.
- **Demonstrating compliance:** Understand how compliance is demonstrated through building energy performance calculation using DEAP and how this compares to the PHPP software used for Passive Houses.
- **The benefits of achieving continuity of the building envelope:** How to coherently integrate insulation, airtightness and vapour control around the full building envelope to eliminate and mitigate the risks of thermal bridging.
- **The glazing effect:** The significance of windows in nZEB and Passive buildings. Their impact on performance and comfort.
- **Contribution from building energy services:** Understand how space heating, water heating, ventilation and other mechanical services are factored into the energy performance and the revised requirements for renewables.
- **Avoiding the risks - Condensation:** Understand the risks associated with condensation and mould growth and how good detailing prevents such occurrences.
- **Avoiding the risks - Air quality and ventilation:** The need to provide a well-designed ventilation strategy and other factors that can lead to poor air quality or overheating.
- **Joined up thinking, joined up application:** Compliance is the paperwork exercise. The expectation is high performing quality buildings. Understand the importance of communication and interfacing between trades to ensure detailing maintains performance expectations. Typical examples of what can go wrong and why.

Certified Passive House Tradesperson – Building Envelope



There are many similarities between the standards and building physics principles of nZEB when compared to those required to achieve Passive House Standards.

The Saint-Gobain Technical Academy has structured the nZEB course and its two Airtightness courses to ensure that all the learning objectives of the Certified Passive House Tradesperson – Building Envelope qualification have been addressed.

Attendance at all three of our free to attend one day courses (as listed below) will provide the learning platform for a candidate to put themselves forward to sit the Certified Passive House Tradesperson – Building Envelope examination.

- nZEB in Practice
- Airtightness & Moisture control
- Airtightness skills



TECHNICAL ACADEMY

Airtightness

Course Description

A one-day course covering both theory and practical demonstrations.

This introduction to airtightness provides the attendees with an overview of airtightness, how to achieve it in accordance with current Building Regulations, the advantages of going further and a practical overview of using the appropriate materials for critical detailing.

Attendance Requirements

Attendees are expected to have a basic knowledge of construction principles

PPE Requirements

Kingscourt Academy only – Attendees should bring safety footwear with them on the day. Footwear can be loaned with prior notice.

Location: Available in Dublin & Kingscourt Academy

Time: 10:00–16:00

Course Content

- Fundamental principles of Airtightness
- Airtightness regulation requirements
- Additional benefits of providing good levels of airtightness in buildings
- Methods of achieving airtightness
- Materials used to achieve airtightness
- Practical demonstrations of applying membranes & tapes
- Practical demonstrations of critical site detailing issues



TECHNICAL ACADEMY

Advanced Airtightness Skills

Course Description

A one-day course covering both theory and practical demonstrations.

Undertaken either as a second day extension to the introductory Airtightness course or as an independent stand-alone one day course only, this practical skills-based course teaches the attendees how to undertake a full range of common critical details encountered on site using airtightness tapes, sealants and membranes.

Using a purpose built airtightness testing rig, attendees will be shown how an airtightness test is typically undertaken and where the common weaknesses in the building envelope occur. In addition to being shown how to correctly use airtightness membranes, tapes and sealants, a large portion of the course is allocated to allow all the attendees to use the materials to construct the appropriate details which can alleviate air leakage at the common penetration scenarios.

PPE Requirements

Kingscourt Academy – Attendees should bring safety footwear with them on the day. Footwear can be loaned with prior notice.

Capacity

Due to the practical nature of this course, to enable all attendees to undertake the practical content, capacity is currently a maximum of 8 attendees per course.

Attendance Requirements

- Attendees are expected to have a basic knowledge of construction principles
- Attendees will be expected to participate in small scale practical activities using airtightness

Location: Kingscourt Academy Only

Time: 10:00–16:00

Course Content

- Blower door theory demonstration
- Live pressurised airtightness demonstration
- Identifying the common weak points
- How to correctly use membranes, sealants and tapes
- Designing out the detail
- Communication of site responsibilities

- How to detail for...
 - Single cable penetrations
 - Multiple cable penetrations
 - Pipe penetrations
 - Joist penetrations
 - Multiple joists penetrations
 - Socket boxes
 - Other critical areas



TECHNICAL ACADEMY

Acoustics in Buildings

Course Description

A one-day course undertaken in the Saint-Gobain Technical Academy, Dublin.

This one day course provides attendees with an overview of the key characteristics of sound performance and measurement assessed within buildings, with specific focus on how to specify, detail and achieve required sound performances using internal drylining systems.

Attendees will be briefed on the common design and site issues that may cause detrimental performances and gain appreciation for specifications and workmanship detailing that help to provide high quality low risk solutions.

Attendance Requirements

Attendees are expected to have a basic knowledge of construction principles.

Location: Dublin Academy Only

Time: 10:00-16:00

Course Content

- Fundamental principles of sound and its measurement
- Differences between Airborne and Impact sound in buildings
- How to design for sound insulation solutions
- The effect of site detailing and workmanship
- The control of sound within a room
- Key regulations and guidance



TECHNICAL ACADEMY

Fire Performance in Buildings

Course Description

A one-day course undertaken in the Saint-Gobain Technical Academy, Dublin.

This one day course provides attendees with an overview of the key areas that a specifier, installer or site supervisor needs to consider when undertaking the specification, construction and sign off of fire related performances on the internal fit out of a building project.

Attendees will be briefed on the common design and site issues that may cause detrimental performances and gain appreciation for specifications and workmanship detailing that help to ensure systems can maintain their tested performances.

Attendance Requirements

Attendees are expected to have a basic knowledge of construction principles.

Location: Dublin Academy Only

Time: 10:00-16:00

Course Content

- Fundamental principles of passive fire growth in buildings
- Key regulations and guidance requirements
- Differences between ratings of materials and systems
- Performances of internal drylining systems
- The effect of site detailing and workmanship
- Practical overview of basic drylining construction requirements
- Practical overview of specific drylining detailing requirements
- Fire protection of structural steel
- BS vs EN Fire test standards



TECHNICAL ACADEMY

Drylining Systems (Partitions & Walls) for Installers & Supervisors

Course Description

A one-day course covering both theory and practical demonstrations.

This course, which focuses on vertical metal framed systems, offers drylining contractors and supervisors with an in-depth look at the required components, performance characteristics and detailing of a full range of Gyproc systems.

To ensure that attendees know how the relevant systems can be built in full compliance with the manufacturer's recommendations to attain their relevant

performance substantiation, the common detailing areas are explained in a practical manner with live demonstrations. Some of the key site detailing areas discussed include junctions, deflection heads, penetrations, socket boxes and control joints.

Attendance Requirements

Attendees are expected to have a basic knowledge of dry lining systems and construction principles.

Location: Dublin & Kingscourt Academy

Time: 10:00-16:00





TECHNICAL ACADEMY

Drylining Systems (Ceilings) for Installers & Supervisors

Course Description

A one-day course covering both theory and practical demonstrations.

This course, which focuses on horizontal ceiling systems, offers drylining contractors and supervisors with an in depth look at the required components, performance characteristics and detailing of a full range of Gyproc metal framed systems and timber joist solutions.

To ensure that attendees know how the relevant systems can be built in full compliance with the manufacturer's recommendations to attain their relevant

performance substantiation, the common detailing areas are explained in a practical manner with live demonstrations. Some of the key site detailing areas discussed include, perimeter junctions, change of level, bulkheads, rafts, penetrations, noggings and control joints.

Attendance Requirements

Attendees are expected to have a basic knowledge of drylining systems and construction principles.

Location: Dublin & Kingscourt Academy

Time: 9:00-13:00





TECHNICAL ACADEMY

Northern Ireland Building Regs.

A focus on fire, sound & energy compliance

Course Description

A one-day course covering both theory and practical demonstrations.

The course takes a fabric first approach for residential buildings outlining how to achieve compliance with the Fire, Sound and Conservation of Fuel & Power elements of the relevant sections of the current Northern Ireland Building Regulations.

Topics Covered

- General Overview of Regulations
- Fire (Technical Booklet E)
- Conservation of Fuel & Power (Technical Booklet F1)
- Resistance to the Passage of Sound (Technical Booklet G)

Attendance Requirements

Attendees are expected to have a basic knowledge of construction principles

PPE Requirements

Attendees should bring safety footwear with them on the day. Footwear can be loaned with prior notice.

Location: Kingscourt Academy Only

Time: 10:00–16:00

Course Objectives

- Develop the attendees knowledge and awareness of the content of three of the more prominent sections of the Northern Irish building regulations
- Understand how to use and interpret the associated Technical Booklets that accompany the building regulations
- Understand how the implications of each regulation reflects the choices of materials and systems used within the construction of a domestic dwelling
- Provide attendees with an understanding of how and where Saint-Gobain products can contribute towards the demonstration of compliance with the regulations



TECHNICAL ACADEMY

ROI Building Regs. & Compliance

A focus on fire, sound & energy compliance

Course Description

A one-day course covering both theory and practical demonstrations.

The course takes a fabric first approach for residential buildings outlining how to achieve compliance with the Fire, Sound and Conservation of Fuel & Power elements of the relevant sections of the current ROI Building Regulations.

Topics Covered

- General Overview of Regulations
- Fire (Technical Guidance Document B)
- Sound (Technical Guidance Document E)
- Conservation of Fuel & Energy – Dwelling (Technical Guidance Document L)

Attendance Requirements

Attendees are expected to have a basic knowledge of construction principles.

Location: Dublin Academy Only

Time: 10:00–16:00

Course Objectives

- Develop the attendees knowledge and awareness of the content of three of the more prominent sections of the Irish building regulations
- Understand what compliance in accordance with the Building Control Act means to the respective members of a project team
- Understand how to use and interpret the associated Technical Guidance Documents that accompany the building regulations
- Understand how the implications of each regulation reflects the choices of materials and systems used within the construction of a domestic dwelling
- Provide attendees with an understanding of how and where Saint-Gobain products can contribute towards the demonstration of compliance with the regulations



TECHNICAL ACADEMY



Gyproc Plaster Product Application

Course Description

This brand new two day initiative offers existing plasterers the opportunity to gain recognition from Gyproc regarding their ability to understand and apply the full range of Gyproc Plaster products in accordance with manufacturer's instructions.

Successful completion of the course, which is validated by an on-site third party assessor throughout its duration, provides a Gyproc brand endorsement as a Gyproc Approved Plaster Product Applicator.

Attendance Requirements

Subject to approved application only. Plastering experience is essential, applicants should already be suitably qualified practicing plasterers.

Location: Kingscourt Academy Only

Time: Day 1: 09:00–17:00
Day 2: 08:30–15:00

Full terms and conditions are available upon request.

NEW





TECHNICAL ACADEMY

Renovation Solutions

Course Description

A one-day course covering both theory and practical demonstrations.

This one day course provides attendees with a practical appreciation of a full range of internal fit-out solution techniques and systems that can be adopted to improve the overall energy performance and comfort levels within existing buildings.

Attendees will gain an understanding of basic thermal, moisture management and acoustic theory and appreciate that in the context of renovation, working with an existing structure, the choice of materials

and their correct installation is crucial in mitigating against detrimental site issues and performances.

PPE Requirements

Kingscourt Academy – Attendees should bring safety footwear with them on the day. Footwear can be loaned with prior notice.

Attendance Requirements

Attendees are expected to have a basic knowledge of construction principles.

Location: Available in Dublin & Kingscourt Academy

Time: 10:00–16:00





TECHNICAL ACADEMY

External Wall Insulation (EWI)

Course Description

A two-day course covering both theory and practical demonstrations.

A two day mix of theory and practical relating to External Wall Insulation (EWI) systems with a specific focus on the related Weber product range.

Day 1: Provides attendees with the fundamental principles associated with EWI, thermal performance calculations, surveying and project management.

Day 2: Concentrates on the practical installation issues and detailing.

Attendance Requirements

Attendees are expected to have a basic knowledge of construction principles

PPE Requirements

Kingscourt Academy – Attendees should bring safety footwear with them on the day.

Location: Kingscourt Academy Only

Time: Start time: 10:00 Day 1
Finish time: 16:00 Day 2





TECHNICAL ACADEMY

CPD Courses Available

1. Metal Stud Partition Systems & Suspended Ceilings

This is an RIAI accredited CPD run by Gyproc. A presentation providing an overview of the components, construction and performance characteristics offered by metal stud partition systems and ceilings.

2. Theory of Fire

This is an RIAI accredited CPD run by Gyproc. One hour outlining key principles relating to passive fire containment in buildings and the drylining materials and systems that can be utilised in specification

3. Passive House – No Big Deal

This is an RIAI accredited CPD presentation run by Isover. A presentation highlighting the key fabric first principles associated with designing a building to passive standards

4. Render Protected External Wall Insulation (EWI)

This is an RIAI accredited CPD run by Weber. A one hour presentation outlining the components, construction techniques and performance benefits offered by render protected external wall insulations systems.

5. Sound Control for New Homes

This is an RIAI accredited CPD run by Isover outlining how increased acoustic comfort can be achieved within a domestic dwelling using strategic specification of mineral wool insulation.

CPD presentations can be held at either of our Kingscourt or Dublin Technical Academies or at a location chosen by the practice to whom the presentation is being provided.





TECHNICAL ACADEMY

Find Us



Dublin Academy

We're located in Kilcarbery Business Park

GPS co-ordinates for Kilcarbery Business Park:

53.874 Latitude, -6.804 Longitude

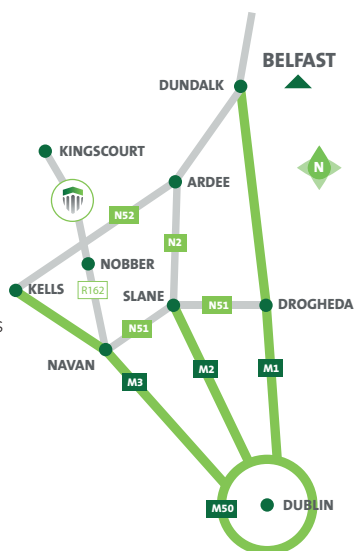
45 minutes from Dublin City Centre
2 hours 20 minutes from Belfast
2 hours 20 minutes from Galway
2 hours 35 minutes from Cork

Kingscourt Academy

We're located on the R162 between Kingscourt and Nobber GPS co-ordinates for Kingscourt:

53.315 Latitude, -6.440 Longitude

1 hour from Dublin
1 hour 30 minutes from Belfast
2 hours 30 minutes from Galway
4 hours from Cork





TECHNICAL ACADEMY

Get the know-how
with the Saint-Gobain

Technical Academy

Dublin & Kingscourt

Sign-up today

www.saint-gobain.ie/technical-academy



When you need a hand...

We're here to help!

ROI - 1800 744480

NI - 0845 3990159

Our Technical Support Team...

PROVIDES ADVICE ON:

- New Building Regulations
- Thermal, Fire and Acoustic performance
- U-Values and Airtightness
- Gyproc, Isover and Weber systems



Contact us...

Email: tech.ie@saint-gobain.com
Free Phone ROI: 1800 744480
Free Phone NI: 0845 3990159
www.gyproc.ie
www.isover.ie
www.weber.ie



Notes





Notes



TECHNICAL ACADEMY



Saint-Gobain Technical Academy

Unit 4, Kilcarbery Business Park,
Nangor Rd, Dublin, D22 R2Y7



Saint-Gobain Technical Academy

Navan to Kingscourt Road, Lisnagrew,
Kingscourt, Co. Cavan, A82 PF99



Website

www.saint-gobain.ie

Email

techacademy@saint-gobain.com



@SaintGobainIE

Or contact us on:

Free Phone ROI

1800 744 480

Free Phone NI

0845 399 0159



SAINT-GOBAIN