

COURSE DETAILS

Course Title	ON-SITE ELECTRICITY GENERATION
Course Aim	On-site generation of electricity can be a good way of reducing grid consumption but the varying technologies, their suitability for implementation, income streams, ongoing costs and grid connection requirements can be complex and are different for every site. This course aims to inform participants about the main types of on-site generation and provide information on how to effectively deploy it and gain commercial benefit.
Course Description	<p>The course will describe how the most common forms of on-site generation such as solar, wind and CHP can be specified, installed and operated, how to effectively size the generation, how they would connect within an existing site and the financial incentives and mechanisms available to each technology.</p> <p>The course also includes the process for applying for and obtaining permission from the local Distribution Network Operator (DNO) to connect any type of generation and to understand how to find out whether export provision may be available.</p>
Course Outcomes	<p>The course will help you to:</p> <ul style="list-style-type: none"> • Define the main technologies used for on-site electricity generation • Identify the correct technology for deployment in a building • Understand how to size the generation technology required • Assess how and where to connect the generation technology • Evaluate the financial incentives and returns available for each technology • Recognise what may prevent on-site generation from being deployed • Understand the process of dealing with DNOs to gain permission for generation and the possibility of exporting to the grid
Course Structure and Features	<p>This course is to be delivered as a 1 day workshop.</p> <p>The course structure outlined below is indicative as some sections may be amended to assure the best outcomes for participants. Participants are encouraged to contribute with their own experiences and examples.</p> <p>The course material such as slide pack, case studies and course activities and any other necessary information will be issued by the course tutor at the beginning of the course and throughout.</p> <p>Course Structure:</p> <ol style="list-style-type: none"> 1. Opening 2. On-site solar generation



	<ol style="list-style-type: none"> 3. On-site wind generation 4. On-site CHP generation 5. Other generation technologies 6. Connecting generation to the grid 7. Export agreements and export prevention
Who Should Attend the Course	<p>This course is aimed at those who have already some familiarity with energy management. It is also aimed at experienced professionals or teams assigned with, or planning to install an on-site generation technology for organisations or clients.</p> <p>As a guide, participants with the following job titles may be appropriate for the course:</p> <ul style="list-style-type: none"> • Energy Trainees • Energy Engineers / Managers • Environmental Engineers / Managers • Buyers / Financial Managers
Prerequisites	<p>The minimum requirements for admission are:</p> <ul style="list-style-type: none"> • Educated to degree standard or equivalent business based experience. • For those whose first language is not English, and who have not undertaken a course of study where the principal medium of instruction is English, certificate of competency in one of the standard language tests (e.g. IELTS, TOEFL) will normally be required.
Further Information	<p><u>Preparation for the course:</u> The EMA aims to make parts of the course more relevant to participants by giving them opportunity to discuss their own building / site types and assess the suitability of on-site generation technologies for them (their clients). In preparation for the course, we suggest that participants prepare details of a building / site where they may consider integrating a generation technology into their / client's organisation.</p> <p><u>Post course assessment:</u> After the course, participants will be required to complete an assessment to test their knowledge, understanding, and application of the contents covered in this course.</p> <p><u>Certification:</u> Participants who complete and pass the assessment will receive a certificate including 5 hours of Continuing Professional Development (CPD) recognition.</p>
Other Related Training Courses	<p>Energy Assessments, Monitoring, Targeting and Validation Energy Management in Building Services Energy Procurement</p>

