

## COURSE OVERVIEW (VIRTUAL DELIVERY)

<b>Course Title</b>	<b>FUNDAMENTALS OF ENERGY MANAGEMENT</b>
<b>Course Aim</b>	This introductory course is designed to provide a comprehensive and practical overview of the key energy management tasks to help organisations accelerate their net zero transition. The course focuses on the energy management knowledge and skills that are required from an energy management professional. To understand energy management, it is important to recognise that it can differ across organisations.
<b>Course Description</b>	<p>As the course unfolds, the overview of regular energy management practices applied to manage and save energy, as well as decrease energy related cost and emissions will be presented and discussed. The goal of the course is to leave a lasting impression about what energy management practices can be applied within businesses, what can be done to increase energy performance and efficiency, and what skills and knowledge are required to deliver these.</p> <p>This course will provide participants with an overview of the key knowledge and skills required to become a balanced and hands-on energy management practitioner.</p>
<b>Course Outcomes</b>	<p>The course will help you to:</p> <ul style="list-style-type: none"> <li>• Understand global view of energy consumption and its impact</li> <li>• Define what energy management means for its practitioners and their organisations and /or clients</li> <li>• Understand basic energy management practices</li> <li>• Understand technical concepts of energy use</li> <li>• Identify technical and non-technical responsibilities of energy management practitioners</li> <li>• Understand basic monitoring and targeting principles</li> <li>• Gain understanding of energy auditing</li> <li>• Understand legislative compliance related to energy management</li> <li>• Grasp waste and water management basics</li> <li>• Gain energy procurement overview</li> <li>• Understand relationship between all EMA Energy Management in Practice training courses</li> </ul>
<b>Course Structure and Features</b>	<p>This course is to be delivered as a 2-day virtual workshop.</p> <p>Course structure:</p> <ol style="list-style-type: none"> <li>1. Opening</li> <li>2. Energy fundamentals</li> <li>3. Global and UK energy use</li> <li>4. Prime energy legislation and UK energy industry structure</li> <li>5. Energy procurement overview</li> <li>6. Energy Use in buildings</li> <li>7. Introduction to monitoring and targeting</li> <li>8. Introduction to energy auditing</li> <li>9. Introduction to lighting</li> </ol>



	<p>10. Introduction to heating ventilation and air conditioning                      11. Introduction to renewable and low carbon on-site Generation                      12. Post course assessment</p> <p>Some course 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 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><b>Who Should Attend the Course</b></p>	<p>This course is aimed at newly appointed energy management professionals or professionals appointed to energy auditing roles. The course is also suitable at those re-skilling or upskilling to gain basic energy management knowledge, and those intending to take the first steps to become an energy manager.</p> <p>As a guide, participants with the following job titles may be appropriate for the course:</p> <ul style="list-style-type: none"> <li>• Energy Trainees / Graduates</li> <li>• Energy Assessors</li> <li>• ESOS Assessors</li> <li>• Estates Staff / Managers</li> <li>• Facilities Staff/Managers</li> <li>• Sustainability Staff/Managers</li> <li>• Building Managers</li> </ul>
<p><b>Prerequisites</b></p>	<p>The minimum requirements for admission are:</p> <ul style="list-style-type: none"> <li>• Some practical business-based energy awareness experience is recommended</li> <li>• 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.</li> </ul>
<p><b>Further Information</b></p>	<p><u>Pre-course reading:</u> Information will be provided on some of the areas and equipment that will be discussed, and legislation that may apply, to make participants aware in advance of some of the course discussions.</p> <p><u>Post course assessment:</u> Following the course conclusion, participants will be required to complete an open book written assessment to test their knowledge, understanding, and application of the content covered during the course. Post-course assessment forms 100% of the overall assessment of this course.</p> <p><u>Certification:</u> Participants who complete and pass the assessment will receive a certificate including 10 hours of Continuing Professional Development (CPD) recognition.</p>
<p><b>Other Related Training Courses</b></p>	<p>Energy Auditing <a href="#">Techniques</a>                      Energy Assessments, Monitoring, Targeting and <a href="#">Validation</a>                      Energy Management in <a href="#">Building Services</a></p>

