

## COURSE OVERVIEW

<b>Course Title</b>	<b>ENERGY AUDITING TECHNIQUES</b>
<b>Course Aim</b>	Energy auditing is a relatively specialist skill but one that can identify and produce major savings in energy use and cost. While energy audits will always be specific to each building, this course aims to inform participants about the basic techniques and the key elements to look out for during an audit.
<b>Course Description</b>	<p>The course will describe the basic techniques of energy auditing, from initial data analysis through to the on-site process or equipment identification and operational review. It will explain the main types of opportunities that are likely to be identified, the types of equipment that can be replaced or upgraded and will discuss the control of energy consuming process and equipment where much of the savings can be made.</p> <p>It will also cover the basic outcomes of an audit in relation to reporting and calculation of savings and return on investments.</p>
<b>Course Outcomes</b>	<p>The course will help you to:</p> <ul style="list-style-type: none"><li>• Understand the basic process for energy auditing</li><li>• Prepare and conduct an energy audit</li><li>• Scope and interpret site data before an audit commences</li><li>• Grasp auditing techniques that will be addressed for the systems below, but they can be applied to most energy consuming items:<ul style="list-style-type: none"><li>• Heating systems</li><li>• Cooling systems</li><li>• Pumping systems</li><li>• Air handling systems</li><li>• Lighting</li><li>• Compressed air</li></ul></li><li>• Identify appropriate control systems</li><li>• Gain understanding of basic reporting techniques</li><li>• Undertake basic calculation of savings and return on investment</li></ul>
<b>Course Structure and Features</b>	<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"><li>1. Opening</li><li>2. Basic process for energy auditing</li></ol>



	<p>3. Pre-audit analysis</p> <p>4. Energy auditing techniques</p> <p>5. Control systems</p> <p>6. Basic reporting and costing</p> <p>7. Post course assessment</p>
<b>Who Should Attend the Course</b>	<p>Any professional or team assigned with, or planning to undertake energy audits of organisations or clients, or any professional interested in gaining or refreshing the energy auditing skills and knowledge. 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</li> <li>• Energy 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>
<b>Prerequisites</b>	<p>The minimum requirements for admission are:</p> <ul style="list-style-type: none"> <li>• Educated to degree standard or equivalent business based experience.</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>
<b>Further Information</b>	<p>Pre-reading: Information will be provided on some of the environmental measures and charges that impact energy bills so that they are aware in advance of some of the course discussion.</p> <p>Post course assessment: 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>Certification: Participants who complete and pass the assessment will receive a certificate including 5 hours of Continuing Professional Development recognition.</p>
<b>Other Related Training Courses</b>	<p>Energy Assessments, Monitoring, Targeting and <a href="#">Validation</a></p> <p>Turning Data into Energy <a href="#">Savings</a></p> <p>Energy Management in Building <a href="#">Services</a></p> <p>Essential HVAC Controls and <a href="#">Optimisation</a></p> <p>Lighting – Basic <a href="#">Understanding</a></p> <p>On-site Electricity <a href="#">Generation</a></p>

