

BREEAM Accredited Professional Examination - information for candidates**Examination syllabus*****Sustainability Drivers (5 Questions):***

- Government policy on sustainable development
- UK Sustainability Indicators
- Sustainability concepts – eg “triple bottom line”
- Climate change – implications for buildings
- Relative contributors to CO₂ emissions – where do buildings fit in?
- Environmental impacts of materials and products – product certification schemes
- Embodied energy and life-cycle assessment
- Decision to build
- Social impacts
- Local environment and community

Design Process (5 Questions):

- Stakeholder engagement
- Managing cost and delivering value
- RIBA design stages and appropriate design actions and expected achievements
- Design team organisation and resources

Environmental Design (10 Questions):

- Developing the brief
 - Setting environmental objectives – design process
 - Stakeholder engagement
 - Design team integration
 - Trade-offs and priorities
 - Key “Do’s and Don’t’s”
- Building Regulations
 - ADL2A and associated tier 2 documents
- Site selection and assessment
- Individual building compared with community solutions
- Building form and orientation
- Building fabric
 - Thermal capacity – lightweight / heavyweight
 - Form of construction
 - Materials
 - U-values
 - Airtightness
 - Glazing
- Building Services
 - Heating / DHWS
 - Cooling / refrigerants
 - Lighting / daylighting
 - Ventilation
 - Control / human interaction
 - Passive design
 - Metering and monitoring provision

- Energy performance
- Low and Zero Carbon technologies
- Whole Life Costs
- Human wellbeing and productivity
- Fit-out
- Design for handover
- Design for effective environmental management
- Health and safety considerations
- Waste handling and management
- Ecology
- Water
- Deconstruction

Achieving a high BREEAM score (20 Questions):

- BREEAM process
 - Scope of BREEAM
 - Stages of assessment
 - Appropriate BREEAM methods
 - Role and appointment of BREEAM Assessor
- Versions of BREEAM
- Use of BREEAM Accredited Professionals
- Innovation credits
- Speculative buildings
- Existing buildings
- Refurbishment
- Prioritising credits
- Sources of guidance
- Construction site management
- Use of technical specialists
- Building Services strategy
- Reduction of CO₂ emissions
- Low or zero carbon technologies
- Responsible sourcing of materials
- Water conservation
- Site selection
- Re-use of land
- Planning requirements
- Impact of temporary works on the assessment
- Use of alternative methodologies

Evidence requirements and audit function (5 Questions):

- Roles and responsibilities
 - Designer
 - Client
 - Accredited Professional
 - Assessor

- Certification body
- Managing conflicts of interest
- Evidence requirements
 - Documentation required
 - Record keeping – design and construction phase
 - Timing – what procedures and when
 - Quality standards