

## **WSQ Apply Management And Economics In Energy Management Industry**

*(Equivalent to "Energy Management and Economics" module under the Associate SCEM certification)*

### **Introduction**

The Singapore Workforce Skills Qualifications (WSQ) system is a national framework developed by the Singapore Workforce Development Agency (WDA) for adult workers to increase their competency and add value to the industries by taking up continuing education and training modules. WSQ caters to adult workers and aims to make skills upgrading accessible to the workforce as well as assist them in the advancement and development of their career.

SEAS is accredited by the Singapore Workforce Development Agency (WDA) to conduct WSQ modules in Energy Management. Our modules and assessment programmes are developed from the Singapore Certified Energy Manager (SCEM Associate Level) curriculum in line with WDA's Workforce Skills Qualifications (WSQ) framework.

The Singapore Workforce Skills Qualifications (WSQ) module 'Apply Management And Economics In Energy Management Industry', is equivalent to the 'Energy Management and Economics' module, a core module under the Associate SCEM certification.



### **Objective of module**

On completion of the module, learners will have the:

- Knowledge and skills to identify roles and functions of personnel in an energy management team;
- Review energy market and regulatory environments; and
- Apply engineering economics when carrying out energy management work.

### **Module Outline**

1. Identify roles and functions of personnel in an energy management team
  - Identify process to effective energy management programme
  - Identify relevant institutions/parties that are involved in providing support to energy management industry
  - Identify objective of forming energy team in organisation
  - Identify roles and responsibilities of key personnel in energy team
  - Interpret one's duties and responsibility within energy management organisation that he/she works for
  - Identify types of training programmes for energy team to be equipped with skills to perform respective roles effectively
2. Review energy market and regulatory environments
  - Identify impact of deregulation of energy market

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- Identify retail electricity market after deregulation of energy market
  - Identify industrial structure in new electricity market and their roles to energy management
  - Liaise with relevant energy institutions/parties relating to work requirements
  - Process grant applications from relevant institutions/parties relating to energy project
3. Apply engineering economics when carrying out energy management work
- Define return on investment (ROI) in terms of energy management
  - Determine type of energy saving investment for organisation
  - Calculate pay back of initial energy investment to determine amount of savings gain from this investment
  - Evaluate life cycle cost of energy investment to enable organisation to make decisions

### **Target Audience**

Eligible candidate for this module admission should possess the following minimum qualification:

Level	Criteria		
	Education	Relevant Experience	Other Requirements*
Associate	An Engineering or Technical Certificate OR Their Equivalent	At least 3 years of experience	<ul style="list-style-type: none"> <li>• Singaporean / PR</li> <li>• Achieve at least 75% of attendance</li> <li>• Complete and pass all required assessments</li> <li>• Complete all surveys (Funding details subjected to revision based on latest funding rate)</li> </ul>
	Polytechnic Diploma (Local Polytechnics) Electrical & Mechanical	At least 2 years of experience	
	Specialist Diploma in relevant disciplines Electrical & Mechanical	At least 2 years of experience	

Candidates who meet the certification criteria may apply for Associate SCEM certification to the [SCEM Registry](#). Apply for SCEM Certification within 5 years from the date that the applicants completed SCEM training. A Certificate of Registration which is valid for three years will be issued to successful applicants.

\*All these are requirement by SCEM Registered subject to changes.

For more information regarding the SCEM certification scheme, please log-on to [www.e2singapore.gov.sg/scem.html](http://www.e2singapore.gov.sg/scem.html)

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