

Singapore Certified Energy Manager (SCEM) Associate Level

Module: Apply Management and Economics in Energy Management Industry

This competency unit is apply management and economics in energy management industry. On completion of this unit, 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.

This competency unit comprises of the following competency elements:

1. Identify roles and functions of personnel in an energy management team
 - Identify objective of forming energy team in organization
 - Identify key steps of effective energy management programme
 - Identify Roles and Responsibilities of key personnel in Energy Team
 - Interpret one's duties and responsibility within energy management organization that he/she works for
 - Identify types of training programmes for energy team to be equipped with skills to perform respective roles effectively
 - Identify relevant institutions / parties that are involved in providing support to energy management industry
 - Identify process to effective energy management programme
2. Review energy market and regulatory environments
 - Identify Impact of Deregulation of Energy Market
 - 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 Requirement
 - Process Grant Application from Relevant Institutions / Parties Relating to Energy Project
3. Apply engineering economics when carrying energy management work
 - Define Return on Investment (ROI) in term of Energy Management
 - Determine Type of Energy Saving Investment for Organisation
 - Calculate Payback of Initial Energy Investment to Determine Amount of Saving gain from this Investment
 - Evaluate Life Cycle Cost of Energy Investment to Enable Organisation to Make Decision

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