

# Heating, Ventilation & Air Conditioning (HVAC)

## PENGENALAN

HVAC adalah salah satu bidang dibawah Kejuruteraan Mekanikal yang berasaskan prinsip-prinsip termodinamik, mekanik bendalir dan kajian pemindahan haba. Kegunaan sistem HVAC adalah untuk memberikan suhu yang selesa serta kualiti udara yang sempurna.



# Maklumat Program

Kod Program:  
**ME-020-2:2012**

Nama Program:  
**Peralatan Penyaman Udara HVAC –  
Satu Fasa**

(Installation, Servicing,  
Troubleshooting & Repair – Single  
Phase Air Conditioning Equipment)



Tempoh Latihan:  
8 Bulan

## Tahap 2



Syarat Kemasukan:  
Lulus SPM



Yuran Kursus: RM6700

Kod Program:  
**ME-020-3:2012**

Nama Program:  
**Penyeliaan Pemasangan &  
Penyelenggaraan HVAC**  
(Installation & Maintenance  
Supervision)



Tempoh Latihan:  
12 Bulan

## Tahap 3



Syarat Kemasukan:  
Lulus SKM Tahap 2



Yuran Kursus: RM8350

# Potensi Kerjaya

Di antara kerjaya yang bakal dimiliki oleh pemegang Sijil SKM/ DKM dalam bidang Kejuruteraan Automasi ini adalah:

- Juruteknik Automasi
- Penyelia Industri
- Penolong Jurutera Fabrikasi/ Proses/  
Pengeluaran/ Penyelenggaraan/  
Rekabentuk/ Kawalan Kualiti



# Kandungan Latihan

ME-020-2:2012 Peralatan Penyaman Udara HVAC – Satu Fasa - Tahap 2

## Core Ability Level 1

Module 1: Basic Working  
Communication

Module 2: Personal  
Behaviour Skill

Module 3: Work Place Ethics  
Awareness

Module 4: Safety Health and  
Environment Awareness

## Core Ability Level 2

Module 1:  
Communication  
Application

Module 2: Interpersonal  
Behaviour

Module 3: Work Place  
Culture Behaviour

Module 4: Health, Safety  
and Environmental  
Adaptation

## Core Subject

CU1: Risks & Hazard  
Assessment

CU2:: Refrigerant Handling

CU3: Ventilation Fan (1ph)  
Installation & Maintenance

CU4: Window Unit (1ph)  
Installation & Maintenance

CU5: Air Cooled Split Unit  
(1ph) Installation &  
Maintenance

# Kandungan Latihan

ME-020-3:2012 HVAC – Installation & Maintenance Supervision - Tahap 3

## Core Ability Level 3

Module 1: **Effective Communication**

Module 2: **Information Technology Awareness**

Module 3: **Leadership Skill**

Module 4: **Work Place Ethics**

Module 5: **Administrative Skill**

Module 6: **Health, Safety & Environmental Implementation Consciousness**

## Core Subject

CU1: Administration of Service Contracts

CU2: Handling of Customer Complaints/ Breakdown Calls, Part/ Cosumable Purchasing Requisition

CU3: Coordination of Repair Works

CU4: Commissioning/ Warranty and Reworks

CU5: Customers Enquiries For Servicing

CU6: Management & Training of Service Personnel

## General Studies

Semester 1

- English I
- Mathematics

Semester 2

- English II
- Introduction to Quality