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| 1. Module details | |
| Module name | Operational Awareness of Air Handling Plant |
| Module duration | 0.5 module (18-20hrs). |
| Module code | NR31 |
| Discipline code | 0703310 – Air Conditioning Systems |
| 2. Module purpose | This module aims to provide an introduction for persons in the operation of air handling systems. |
| 3. Prerequisites | NBB02 Occupational Health and Safety |
| 4. Relationship to competency standards | |
| 5. Content | <ol style="list-style-type: none"> 1. Air filtration standards and relevant codes. 2. Types of filter media and their application. 3. Operation of VAV systems and associated components in the air |
| 6. Assessment strategy | |
| Assessment methods | Short answer questions |
| Conditions of assessment | |
| 7. Learning outcome details | |
| Learning outcome 1 | Explain the function and purpose of air cleaning filters. |
| Assessment criteria | 1.1 Explain the function and purpose of air cleaning filters. |
| Learning outcome 2 | Identify the characteristics of materials used to clean air. |
| Assessment criteria | <ol style="list-style-type: none"> 2.1 Identify various filter media. 2.2 List the applications for various filter media |
| Learning outcome 3 | Explain the operations of various systems; eg. VAV, fire dampers, electrostatic air filters. |
| Assessment criteria | 3.1 List requirements under relevant codes. |

8. Delivery of the module

Delivery strategy

- 3.2 Explain the operation of a typical air handling plant.
- 3.3 Describe the operation of various filters, eg. electrostatic air filters.

Delivery strategies must be suitable for both theoretical and /or practical learning and module purpose.
It recommended that learning and assessment be facilitated in a holistic manner, which may require a learning outcome sequence other than that indicated in the body of this module.
Also, an integrated theory/practice approach should be used where students learn by practical exercises and through research and workshop reports.

Resource requirements

Occupational health and safety requirements

A safe and healthy environment will be provided for students in regards to classroom and workshop safety.