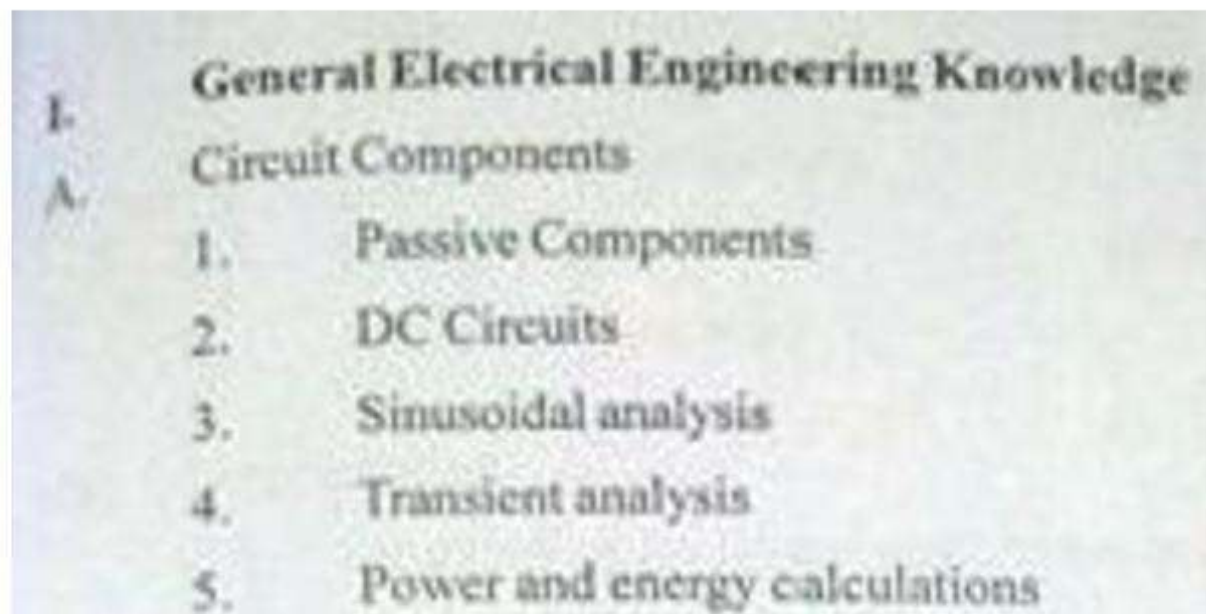


SCOPE- Electrical PE (Building Services)

PART (1)

YEAR 1 & 2 (Minumum 3 to 4 years is required for a graduate to become a PE)

(Total PDP Points for Informal Learning Activities-Private Study Part Time) (Total 10 points per year maximum)(MEB-PE Regulation Appendix 3). Ctrl+Click the link & then allow to download the contents.



I.	General Electrical Engineering Knowledge
A.	Circuit Components
1.	Passive Components
2.	DC Circuits
3.	Sinusoidal analysis
4.	Transient analysis
5.	Power and energy calculations

STUDY MATERIALS (DC Circuits)

[DC_Circuit_E003_E004.zip](#)

http://www.filefactory.com/file/c0cb8ab/n/Stage_1_Part_1.zip

The tests are based on your general knowledge on the subject. They are not designed to test the limited area of study that the candidate learns one paper & sits one test.

ONLINE MCQ TEST (1)

http://www.filefactory.com/file/58r3nfe1qieh/n/E003_E004_Online_Test_1_Question_pdf

<http://www.classroomclipboard.com/503511/Home/Test/3ebb0fe603a748b6b2430e75fb07af4f#/InitializeTest.xml>

<http://www.classroomclipboard.com/503511/Home/Test/3ebb0fe603a748b6b2430e75fb07af4f#/QuestionPresenter.xml?id=11>

First Name-Enter your full name & Surname- Enter Myanmar Engineering Society Membership Number

Enter the code-- G4UYTV

STUDY MATERIALS (AC Circuit 1)

[G002](#)

ONLINE MCQ TEST (2)

http://www.filefactory.com/file/7ebmnciqxf3/n/G002_Online_Test_1_Question_pdf

<http://www.classroomclipboard.com/503511/Home/Test/f7fb9a22d8ba413a8d39bc6ef7be4d20#/InitializeTest.xaml>

First Name-Enter your full name & Surname- Enter Myanmar Engineering Society Membership Number

Enter the code-- 8YGTHT

STUDY MATERIALS (AC Circuit 2)

[G048_7769AC](#)

[G048_Tutorials.zip](#)

Notes for assignment/ tutorials

[G048_Full_Part_1.zip](#)

[G048Part2.zip](#)

[E025_Circuits_1](#)

[E025_Circuits_2](#)

[E025_Tutorial](#)

[Stage_2_Part_3.zip](#)

http://www.filefactory.com/file/c0ccb1f/n/Stage_2_Part_3.zip

[Stage_3_Part_2.zip](#)

http://www.filefactory.com/file/c0ccdbc/n/Stage_3_Part_2.zip

ONLINE MCQ TEST (3)

http://www.filefactory.com/file/52h82a0t0f3f/n/E025_Online_Test_1_Question_pdf

<http://www.classroomclipboard.com/503511/Home/Test/0d8e41400b24465b97e60b2a555d7cff#/InitializeTest.xaml>

First Name-Enter your full name & Surname- Enter Myanmar Engineering Society Membership Number

Enter the code-- DCVK7

ONLINE MCQ TEST (4)

http://www.filefactory.com/file/713uvwk5vbel/n/G048_Online_Test_1_Question_pdf

<http://www.classroomclipboard.com/503511/Home/Test/a03f83dbf40e4991800c44b484ae6a1d#/InitializeTest.xaml>

First Name-Enter your full name & Surname- Enter Myanmar Engineering Society Membership Number

Enter the code-- G9PLM

After you have done the test, the score can be printed out in PDF format The score with at least 50% or more for all tests, it will be record of 4 HR x 0.5 = 2 HR

STUDY MATERIALS (Three Phase Circuits)

[G049 7762AB 7761M Notes](#)

[G049 7762ABTutorial](#)

[E029 Motor Control 1](#)

[E029 Motor Control 2](#)

Fault Calculation

[7762AB Fault Calculation.zip](#)

[AB-Part1.zip](#) [AB-Part 2.zip](#) [AB-Part 3.zip](#) [AB-Part4.zip](#) [AB-Part5.zip](#) [AB-Part6.zip](#)

[ABFormula.zip](#)

Power System Analysis

[7761M-Part1.zip](#) [7761MPart-2.zip](#) [7761M-Part-3.zip](#) [7761M-Part-4.zip](#) [7761M-Part-5.zip](#)

[7761M-Part-6.zip](#) [7761M-Part-7.zip](#)

[Phase AC Supply Handout](#)

[Connection of balanced three phase loads handout](#)

[Star delta conversion handout](#)

[Connection of unbalanced three phase loads](#)

[Power and energy in ac circuit handout](#)

[Watt meter handout](#)

[Three Phase Power Handout](#)

[Power factor correction handout](#)

[High voltage transmission line losses handout](#)

[Symmetrical components handout](#)

[Distribution of fault currents through power system handout](#)

[Phase sequence diagrams for power systems handout](#)

[Phase sequence detectors handout.](#)

[Fault calculations on power system handout](#)

[Power Circuits \(Reference\)](#)

<u>Part 1</u>	<u>Part 2</u>	<u>Part 3</u>
<u>Part 4</u>	<u>Part 5</u>	<u>Part 6</u>
<u>Part 7</u>	<u>Part 8</u>	<u>Part 9</u>
<u>Part 10</u>	<u>Part 11</u>	<u>Part 12</u>
<u>Part 13</u>	<u>Part 14</u>	<u>Part 15</u>
<u>Part 16</u>	<u>Part 17</u>	<u>Part 18</u>

[Stage 2 Part 3.zip](#) http://www.filefactory.com/file/c0ccb1f/n/Stage_2_Part_3.zip

[E029Tutorial](#)

[ONLINE MCQ TEST \(5\)](#)

[G049 Test 1](#)

http://www.filefactory.com/file/5vhbs8sn20f3/n/G049_Online_Test_1_Question_pdf

<http://www.classroomclipboard.com/503511/Home/Test/d5b2138544c74b709963660627046ffe#/InitializeTest.xaml>

First Name-Enter your full name & Surname- Enter Myanmar Engineering Society Membership Number

Enter the code-- UE6FAG

[G049 Test 2](#)

http://www.filefactory.com/file/611ftvpa3dit/n/G049_Online_Test_2_Question_pdf

<http://www.classroomclipboard.com/503511/Home/Test/797cac44d12248b9b3be8507518c9bc4#/InitializeTest.xaml>

First Name-Enter your full name & Surname- Enter Myanmar Engineering Society Membership Number

Enter the code-- PS83

After you have done the test, the score can be printed out in PDF format The score with at least 50% or more for all tests, it will be record of 4 HR x 0.5 = 2 HR

B.	Measurement and Instrumentation
1.	Transducer and System Characteristics
2.	Operational Amplifier

STUDY MATERIALS (Electrical Measurement)

EE 404 Electrical Measurement (1 pt)

EXERCISE ASSESSMENT (30)

Based on the study you got from the above resources, write a professional experiences and competency report for engineering tasks in electrical measurement and testing in above mentioned format & submit it to the assessor.

(Weighted informal learning time for CPD including study & report= 20Hr x 0.5= 10Hr)

After you have done the test, the score can be printed out in PDF format The score with at least 50% or more for all tests, it will be record of 2 HR x 0.5 = 1 HR

C.	Signal Processing
1.	Sampling Theory
2.	Analog-to-digital (A/D) and digital-to-analog (D/A) Conversions

Process control-I006+I008+I020.zip

http://www.filefactory.com/file/c0b7d9d/n/Process_control-I006_I008_I020.zip

I006

UEENEEI006B		Solve problems in process controllers, transmitters and converters
6032A	EA904	Control concepts
7761L	EA190	Electronic signals and systems

1.Process control transducer

2.Operational amplifier

3.Pnuematic

4.Digital control

5.PLC TL31

- 6.Encoder+Decoder
- 7.Digital signal processing
- 8.DAC+Flipflop+Sensor
- 9.Analogue to Digital Conversion
- 10.Temperature control
- 11.Industrial transducer
- 12.Control system evaluation
- 13.Proportional control
- 14.Electronic signal system
- 15.Types of transducers
- 16.Speed measurement

[Stage 4 Part 18.zip](#)

http://www.filefactory.com/file/c0cc793/n/Stage_4_Part_18.zip

[Stage 4 Part 1A.zip](#)

http://www.filefactory.com/file/c0cc226/n/Stage_4_Part_1A.zip

[ONLINE MCQ TEST](#)

[I006Test 1](#)

http://www.filefactory.com/file/46zzpcvm7ugz/n/I006_H012_Online_Test_1_Question_pdf

<http://www.classroomclipboard.com/503511/Home/Test/25f59f11b4584a23b3f564fe4041fb1d#/InitializeTest.xml>

SPHHMYT

[I006Test 2](#)

http://www.filefactory.com/file/78kbc9x2alx/n/I006_H012_Online_Test_2_Question_pdf

<http://www.classroomclipboard.com/503511/Home/Test/7b0f9808d98a48d79e9d77ea4e2af721#/InitializeTest.xml>

First Name-Enter your full name & Surname- Enter Myanmar Engineering Society Membership Number

Enter the code-- F44J

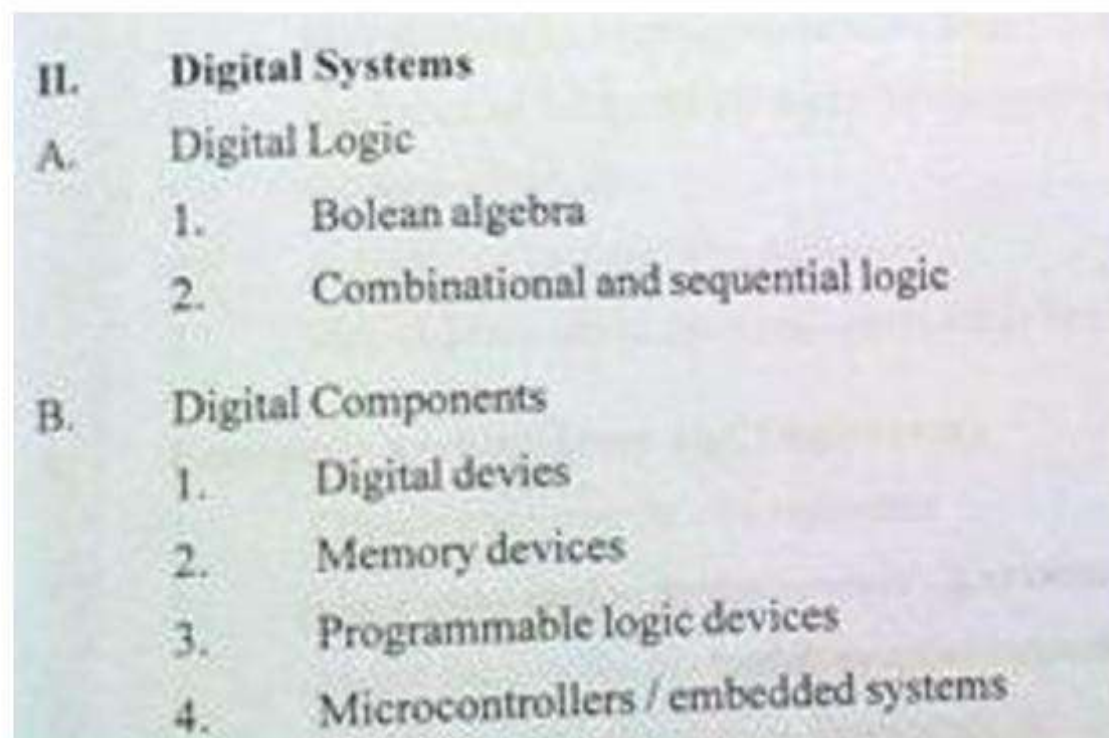
Advanced References

[EE 403 Introduction to Electronic Engineering \(1 pt\)](#)

[EE 524 Introduction to Power Electronics \(1 pt\)](#)

[EE 524 Power Electronics](#)

[EE 524 Applied Electronics](#)



II.	Digital Systems
A.	Digital Logic
1.	Boolean algebra
2.	Combinational and sequential logic
B.	Digital Components
1.	Digital devices
2.	Memory devices
3.	Programmable logic devices
4.	Microcontrollers / embedded systems

Digital Electronics Notes

UEENEEH012B		Troubleshoot digital subsystems
UEENEEH043B		Diagnose and rectify faults in digital subsystems of electronic controls

<http://kyawnaing325.zoomshare.com/files/6/DigitalElectronics.htm>

<http://kyawnaing325.zoomshare.com/files/6/7794CD-DigitalElectronics.htm>

DE 1

Binary Number [Binary Number Lesson.zip](#)

D.A.C Encoder Multiplexer [DAC-Encoder-Multiplexer.zip](#)

Introduction to Digital Logic [DE1-1.zip](#)

Boolean Algebra [DE1-2.zip](#)

De Morgan Theorem [DE1-3.zip](#)

Karnaugh's Map [DE1-5.zip](#)

DE2

Timing Diagram + Operation of Discrete Equipments [DE2-1 2 Notes.zip](#)

7 Segments Display [DE2-7 Segment Display.zip](#)

Logic Families Part 1 & Part 2 [DE2 Logic Families Part I Part II Note Exercise.zip](#)

SR Flip Flop [DE2-SR Flip Flop Notes.zip](#)

D J K Flip Flop [DE2-D J K Flip Flop.zip](#)

Data Transfer [DE2-Data Transfer Note.zip](#)

Encoder [DE2-Encoder Lesson.zip](#)

Logic Level [DE2-Logic Level Note Exercise.zip](#)

Logic Level + Totem Pole [DE2-Logic Level TotemPole Note Exercise.zip](#)

Multiplexer [DE2-Multiplexer Lesson.zip](#)

Schmitt Trigger [DE2-Schmitt Trigger Device Exercise.zip](#)

Shift Register [DE2-Shift Register.zip](#)

ESD [ESD Review Questions.zip](#)

Digital Logic Simplification [Digital Logic Simplification.zip](#)

SR & D Latches [SRandDLatches.mht](#)

Simple Sequential [SimpleSequentialCircuit.mht](#)

Demorgan [DeMorganTheorm 0.mht](#)

Sequential State Diagram [SequentialCircuitStateDiagram.mht](#)

De Morgan Theorem [DeMorganTheorm.mht](#)

D & JK Flip Flop [DandJKFlipFlops 0.mht](#)

Basic Logic Gates [BasicLogicGates.mht](#)

Digital Electronics [DE.zip](#) [DE1.zip](#) [DE2Notes.zip](#)

[Digital logic Simplification.zip](#)

IC Reference

[Digital IC Ref 1-Part 1.zip](#)

[Digital IC Ref 1-Part 2 0.zip](#)

[Digital IC Reference 2-Part 1.zip](#)

[Digital IC Reference 2-Part 2.zip](#)

Digital Electronics Exercises

DE1 Exercise

[DE1-1 Review Question.zip](#)

[DE1-2Review Questions.zip](#)

[DE1-3 Review Question.zip](#)

[DE1-4 Review Question.zip](#)

[ESD Review Questions.zip](#)

[Digital Logic Simplification.zip](#)

DE2 Exercise

[DE2-7 Segment Display Review Q.zip](#)

[DE2 Shift Register Exercise.zip](#)

[DE2-Counter Exercise.zip](#)

[DE2 SR Flip Flop Q.zip](#)

[DE2-D Flip Flop Q.zip](#)

[DE2-Data Transfer Q.zip](#)

[DE2-DecoderMultiplexer Assignment.zip](#)

Advanced References

[BAE 408 Analogue & Digital Electronics](#)

[EE 405 Digital System \(1 pt\)](#)

[EE 405 Digital System \(1 pt\)](#)

[EE 526 Digital Signal Processing \(1 pt\)](#)

[EE 527 Digital Image Processing 1 \(1 pt\)](#)

[EE 527 Digital Image Processing 2](#)

After you have done the test, the score can be printed out in PDF format The score with at least 50% or more for all tests, it will be record of 4 HR x 0.5 = 2 HR

III.	Electric and Magnetic Field Theory and Applications
A.	Electromagnetic Fields
1.	Theory
2.	EMI / EMC
B.	Transmission Lines and Guided Waves
1.	Transmission lines, balanced and unbalanced
2.	Waveguides
C.	Antennas
1.	Gain, patterns, and polarization
2.	Impedance

[G042 Part 3 Notes](#)

[G037 G038 G030Pt1 7762AG Notes](#)

[G015 G042 G037 G038 G039 Part 2 Notes](#)

[G015 G037 G038 G030Pt1 7762AG Notes](#)

[Stage 4 Part 15.zip](#)

http://www.filefactory.com/file/c0cc7cb/n/Stage_4_Part_15.zip

[BAE 607 Radio Wave Propagation & Microwave Techniques](#)

[EE 625 Radio Wave Propagation \(1 Pt\)](#)

[EE 626 Microwave Technique \(1pt\)](#)

[ONLINE MCQ TEST](#)

[G042 Test 1](#)

[http://www.filefactory.com/file/12pcsbpgbkhx/n/G042 Online Test 1 Question pdf](http://www.filefactory.com/file/12pcsbpgbkhx/n/G042_Online_Test_1_Question_pdf)

[http://www.classroomclipboard.com/503511/Home/Test/8c2511d53079456f9c5d159095ec766a#/Initialize Test.xaml](http://www.classroomclipboard.com/503511/Home/Test/8c2511d53079456f9c5d159095ec766a#/InitializeTest.xaml)

First Name-Enter your full name & Surname- Enter Myanmar Engineering Society Membership Number

Enter the code-- HPNYFFB

G042 Test 2

http://www.filefactory.com/file/3ol2dpyi4qm9/n/G042_Online_Test_2_Question_pdf

<http://www.classroomclipboard.com/503511/Home/Test/cb5cd0dd19524431905d5519ad17ab67#/InitializeTest.xaml>

First Name-Enter your full name & Surname- Enter Myanmar Engineering Society Membership Number

Enter the code-- 35KCC

After you have done the test, the score can be printed out in PDF format The score with at least 50% or more for all tests, it will be record of 4 HR x 0.5 = 2 HR

IV. Electronics
A. Electronic Circuit Theory
1. Small-signal and large-signal models
2. Active networks and filters
3. Nonlinear circuits (e.g., comparators)
4. Sinusoidal steady-state analysis
5. Transient analysis
6. Power and energy calculations
B. Electronic Components and Circuits
1. Solid-state power devices and power electronics applications
2. Battery characteristics and ratings
3. Power supplies
4. Oscillators and phase-locked loop characteristics
5. Amplifiers
6. Modulators and demodulators
7. Diodes
8. Circuit protection and safety
9. Transistors and applications

H045+7761A

UEENEEH045		Develop solutions to analogue electronic problems
7761A	EA100	Analogue electronics 1

[Analog1](#)

Analog2

Assessment-Test + Assignment for flexible study students

Electronics H045 Tutorials

H025

UEENEEH025		Provide solutions to single phase electronic power control problems
8273Z	NE064	Variable speed drives

H025 Operational Amplifier

Assessment-Test + Assignment for flexible study students

Electronics H025 Tutorials

H026

UEENEEH026		Provide solutions to polyphase electronic power control problems
8273Z	NE064	Variable speed drives

H026 3 Ph Power Control Electronics 1

H026 3 Ph Power Control Electronics 2

H026 3 Ph Power Control Electronics 3

H026 3 Ph Power Control Electronics 4

Assessment-Test + Assignment for flexible study students

UEENEEH026 Tutorials.doc

Stage 3 Part 2.zip

http://www.filefactory.com/file/c0ccdbc/n/Stage_3_Part_2.zip

BAE 408 Analogue & Digital Electronics

Part 2 Competency units of the subject

Advanced References

EE 403 Introduction to Electronic Engineering (1 pt)

[EE 524 Introduction to Power Electronics \(1 pt\)](#)

[EE 524 Power Electronics](#)

[EE 524 Applied Electronics](#)

ONLINE MCQ TEST

H011Test 2

http://www.filefactory.com/file/3e54mrqli7ft/n/H011_Online_Test_2_Question_pdf

<http://www.classroomclipboard.com/503511/Home/Test/367cc44c01944cb59982be0255dca5bd#/InitializeTest.xaml>

First Name-Enter your full name & Surname- Enter Myanmar Engineering Society Membership Number

Enter the code--- 65TG

H013Test 1

http://www.filefactory.com/file/4ze60r57ea9/n/H013_Online_Test_1_Question_pdf

<http://www.classroomclipboard.com/503511/Home/Test/ea8db99cb2b44c49d016f6c8eee5910#/InitializeTest.xaml>

First Name-Enter your full name & Surname- Enter Myanmar Engineering Society Membership Number

Enter the code--- SN3T84

H013Test 2

http://www.filefactory.com/file/sutmaakz949/n/H013_Online_Test_2_Question_pdf

<http://www.classroomclipboard.com/503511/Home/Test/957b751abb4641cf9ae0a79176936549#/InitializeTest.xaml>

First Name-Enter your full name & Surname- Enter Myanmar Engineering Society Membership Number

Enter the code--- 6LYXKLE

H025Test 1

http://www.filefactory.com/file/7j320hlrk6k9/n/H025_H045_I006_Online_Test_1_Question_pdf

<http://www.classroomclipboard.com/503511/Home/Test/ab5d528d1ff742f7a3d632a61c210eb0#/InitializeTest.xaml>

First Name-Enter your full name & Surname- Enter Myanmar Engineering Society Membership Number

Enter the code--- 96T3TX3

H025Test 2

http://www.filefactory.com/file/20vzqp9mvm8p/n/H025_H045_I006_Online_Test_2_Question_pdf

<http://www.classroomclipboard.com/503511/Home/Test/99835b7ab0c348e8a2fd0827394b60d8#/InitializeTest.xaml>

First Name-Enter your full name & Surname- Enter Myanmar Engineering Society Membership Number

Enter the code-- HHH2HNC

H026Test 1

http://www.filefactory.com/file/fch86cnsrdp/n/H026_Online_Test_1_Question_pdf

<http://www.classroomclipboard.com/503511/Home/Test/ee1e8307748441aeab67110c145a7d16#/InitializeTest.xaml>

First Name-Enter your full name & Surname- Enter Myanmar Engineering Society Membership Number

Enter the code-- U585X6W

H045Test 1

http://www.filefactory.com/file/3vpq08cwj73/n/H045_Online_Test_1_Question_pdf

<http://www.classroomclipboard.com/503511/Home/Test/bd50d0b35eb241518cdddc8e23c0b593#/InitializeTest.xaml>

First Name-Enter your full name & Surname- Enter Myanmar Engineering Society Membership Number

Enter the code-- 8S359V

H045Test 2

http://www.filefactory.com/file/6pxixn406w51/n/H045_Online_Test_2_Question_pdf

<http://www.classroomclipboard.com/503511/Home/Test/f059c6212cc94ca098b61d5ef8188826#/InitializeTest.xaml>

First Name-Enter your full name & Surname- Enter Myanmar Engineering Society Membership Number

Enter the code-- L9UMJM6

After you have done the test, the score can be printed out in PDF format The score with at least 50% or more for all tests, it will be record of 8 HR x 0.5 = 4HR

V.	Control System Fundamentals
A.	Block diagrams
B.	Characteristic equations
C.	Frequency response
D.	Time response
E.	Control system design and implementation (e.g., compensators, steady-state error)
F.	Stability (e.g., tests, Bode plots, root locus, transport delay)

I006

UEENEEI006B		Solve problems in process controllers, transmitters and converters
6032A	EA904	Control concepts
7761L	EA190	Electronic signals and systems

[AnalogDigitalSignalConditioning](#)

[H085 66 I006 Note 1 Sensors 1](#)

[H085 66 I006 Note 2 Sensors 2](#)

[H085 66 I006 Note 3 Sensors 3](#)

[H085 66 I006 Note 4 Control Concept1](#)

[H085 66 I006 Note 5 Control Concept2](#)

[H085 66 I006 Note 6 Electronics Signal](#)

[H085 66 I006 Note 8 Process Control 1](#)

[H085 66 I006 Note 9 Process Control 2](#)

[PLC Textbook1](#)

[PLC Textbook2](#)

[PLC Textbook3](#)

[PLC](#)

[6487E.zip](#)

PLC References

[User Manuals.zip](#)

[TRILOGI5-purdue](#)

[SetupTL6Edu](#)

[Installation](#)

[Installation Instruction](#)

[F Nano-Product Sheets](#)

PID (Proportional Integral Derivative) Control

[PID.zip](#)

Assessment

[I006_Tutorials.zip](#)

UEENEEI001B		Install and set up transducers and sensing devices
UEENEEI002B		Solve problems in pressure measurement systems
UEENEEI004B		Solve problems in flow measurement systems

UEENEEI005B		Solve problems in temperature measurement systems
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I001

[H085 66 I006 Note 1 Sensors 1](#)

[H085 66 I006 Note 2 Sensors 2](#)

[H085 66 I006 Note 3 Sensors 3](#)

I002+I004

[I002I004PressureFlowPnuematicReference.zip](#)

I005

[I005TemperatureMeasurement.zip](#)

Process Control Practicals

[PLC_Application_Assignment.zip](#)

[Control_Circuit_Boards.zip](#)

[PLC_Hardware_Notes_1.zip](#)

[PLC Hardware Notes 2.zip](#)

[PLC Hardware Notes 3.zip](#)

[PLC Hardware Notes 4.zip](#)

[PLC Hardware Notes 5.zip](#)

[PLC Hardware Notes 6.zip](#)

[PLC Trilogy Advanced Programs.zip](#)

[PLC SCADA Project Example 1.zip](#)

[PLC SCADA Project Example 2.zip](#)

[PLC SCADA Project Example 3.zip](#)

[Process Control Equipment Setup 1.zip](#)

[Process Control Equipment Setup 2.zip](#)

[SCADA PLC Project 1.zip](#)

[SCADA PLC Project 2.zip](#)

[SCADA PLC Project 3.zip](#)

[SCADA PLC Project 4.zip](#)

[SCADA PLC Project 5.zip](#)

MACHINE REPAIR+PROCESS CONTROL

[MachineControlCkt1.zip](#)

[MachineControlCkt2.zip](#)

[MachineControlCkt3.zip](#)

[ProcessControlCkt1.zip](#)

[ProcessControlCkt2.zip](#)

[ProcessControlCkt3.zip](#)

[Stage 4 Part 1A.zip](#)

http://www.filefactory.com/file/c0cc226/n/Stage_4_Part_1A.zip

Advanced References

[BAE 503 Control System](#)

[BAE 503 Control System Part 1](#)

Part 2 Competency units of the subject

Linear System + Control System

[EE 601 Non Linear Control Applications \(1 pt\)](#)

[EE 601 Control Engineering \(1 pt\)](#)

[EE 601 Feedback and Control System](#)

[EE 601 PID Control](#)

[EE 601 Non Linear Control](#)

[EE 624 Process Control \(1 pt\)](#)

[http://www.filefactory.com/file/34ha7biln93z/EE 624 Process Control.pdf](http://www.filefactory.com/file/34ha7biln93z/EE_624_Process_Control.pdf)

[ME 534 Numerical Control Part 1 \(1 pt\)](#)

[ME 534 Numerical Control Part 2](#)

ONLINE MCQ TEST

I006Test 3

[http://www.filefactory.com/file/hl6qx2ks1b1/n/I006 H012 Online Test 3 Question pdf](http://www.filefactory.com/file/hl6qx2ks1b1/n/I006_H012_Online_Test_3_Question_pdf)

<http://www.classroomclipboard.com/503511/Home/Test/ef761b3fa64a4ca783baa5dd986f24ab#/InitializeTest.xml>

First Name-Enter your full name & Surname- Enter Myanmar Engineering Society Membership Number

Enter the code-- 2J3PEH

I006Test 4

[http://www.filefactory.com/file/3sbsd1yu13h/n/I006 Online Test 4 Question pdf](http://www.filefactory.com/file/3sbsd1yu13h/n/I006_Online_Test_4_Question_pdf)

<http://www.classroomclipboard.com/503511/Home/Test/ae651477d73c4f5194abd42c8487095b#/InitializeTest.xml>

First Name-Enter your full name & Surname- Enter Myanmar Engineering Society Membership Number

Enter the code-- WKMM7

After you have done the test, the score can be printed out in PDF format The score with at least 50% or more for all tests, it will be record of 4 HR x 0.5=2HR

PART (2)

YEAR 3 & 4 (Minumum 3 to 4 years is required for a graduate to become a PE)

The practice reports need to write for each topics of the study materials included in Scope Part II.

The reports should include the followings:

- Professional topics—— You need to select the topic such as building electrical wiring or power distribution etc
- Fundamental of Engineering- What knowledge you got from the materials in your selected professional topic..
- Engineering Management— How will you manage the I project / workforce to implement the engineering tasks by applying those knowledge in actual workplace project or simulated work place and project?.
- Rules Regulations, Standards & Specifications- You need to refer the relevant engineering rules, regulations, standards and specifications in the tasks expressed in your report.
- Safety—How will you safeguard public safety in performing the engineering tasks?
- Ethics— How will you apply professional code of ethics in performing the engineering tasks?

The candidate should use the following format in the practice exercise reports for each topics of the Scope II that are simulated practice tasks for preparing the Professional Experience and Competency Report to be submitted to Myanmar Engineers Board for Professional Engineer (PE) Registration.

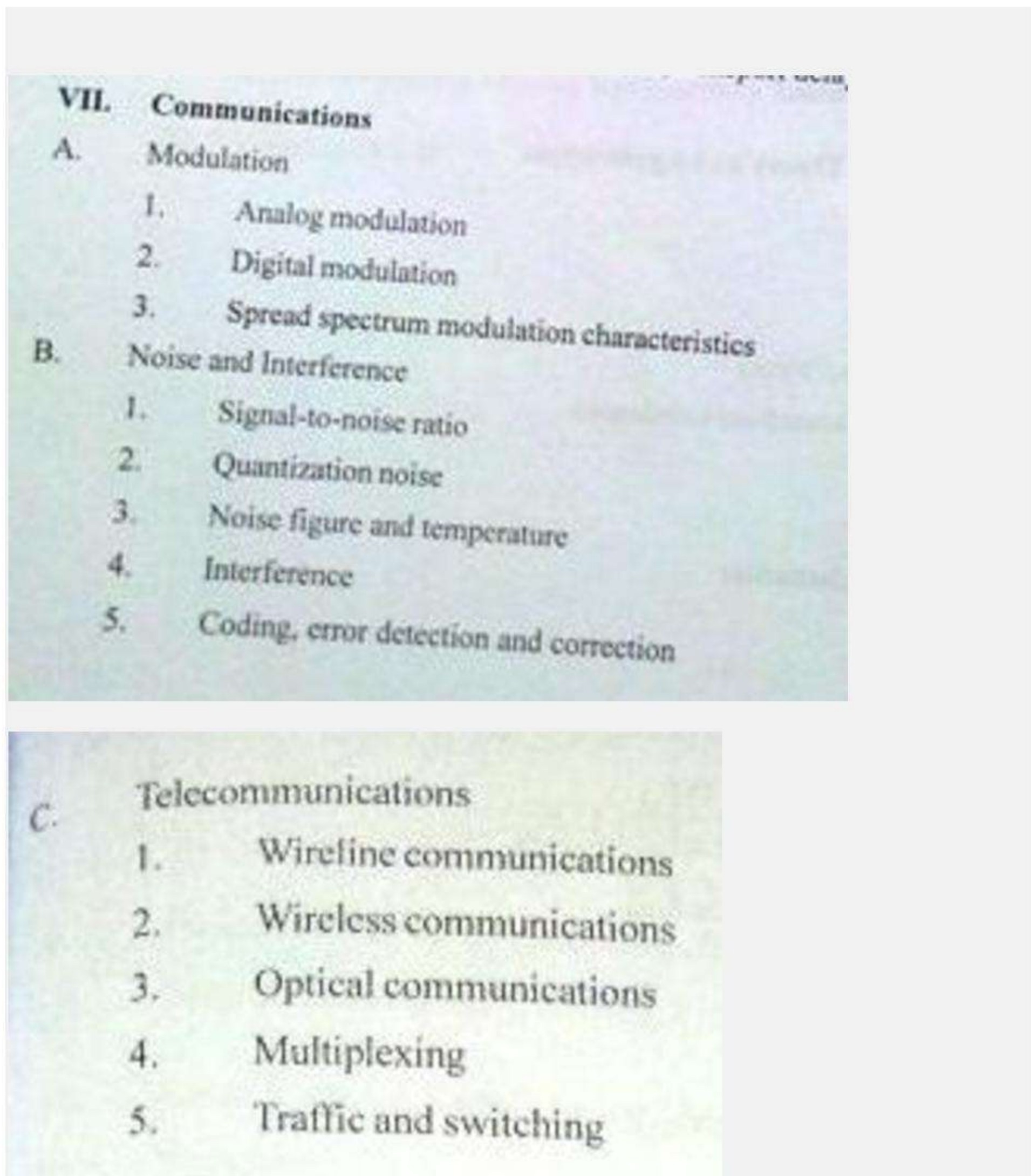
Section (1) Introduction

Section (2) Work experiences in brief and highlight the major important projects

Section 3 to 10 , the following competency should be addressed

- Apply engineering knowledge, methods and techniques
- Use of engineering technology , tools and equipments
- Safeguard public safety
- Recognition the impacts of engineering on the environment , economy and society.
- Manage engineering activities
- Communicate engineering information.

- Work collaboratively
- Main and enhance engineering skills and knowledge. (Ref-MEB PEng Reg)



H046 Telecommunication

UEENEEH046B		Solve fundamental problems in electronic communications system
7761AU	EA181	Communication fundamentals

[H046TelecomNote1.zip](#)

[H046TelecomNote2.zip](#)

[H046TelecomNote3.zip](#)

[Stage 4 Part 16.zip](#)

http://www.filefactory.com/file/c0cc703/n/Stage_4_Part_16.zip

Advanced References

[BAE 604 Telecommunication Engineering](#)

Part 2 Competency units of the subject

Electronics Communications

[EE 525 Data Communication \(1 pt\)](#)

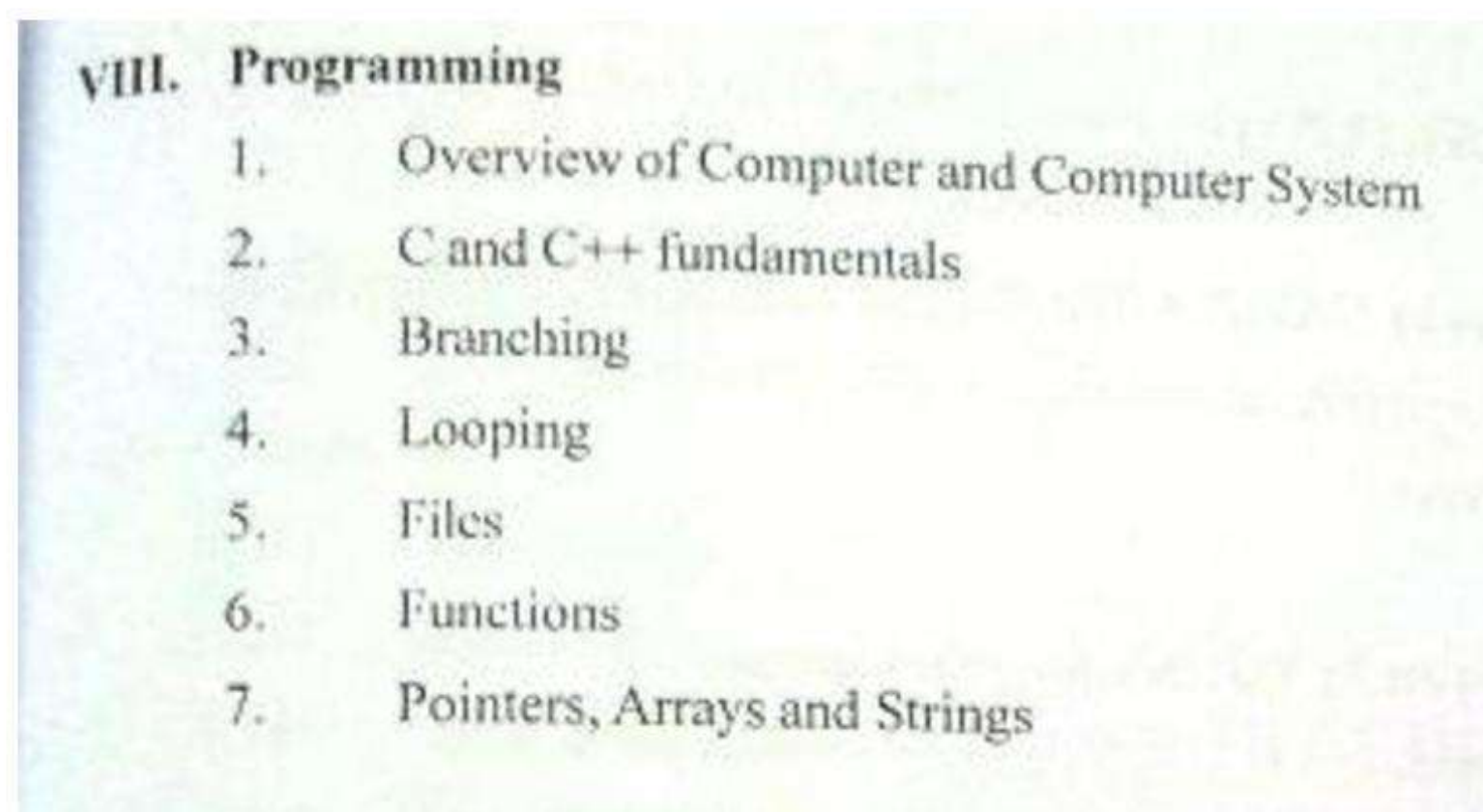
[EE 603 Electronics Telecommunication \(1 pt\)](#)

Reflect your experience in the work place , write the technical report of 10 pages & submit it.

EXERCISE ASSESSMENT

Based on the study you got from the above resources, write a professional experiences and competency report for engineering tasks in electrical power supply in above mentioned format & submit it to the assessor.

(Weighted informal learning time for CPD including study & report= 20Hr x 0.5= 10Hr)



VIII. Programming
1. Overview of Computer and Computer System
2. C and C++ fundamentals
3. Branching
4. Looping
5. Files
6. Functions
7. Pointers, Arrays and Strings

BAE 601 Computer Programming

[C++ Programming Part 1](#)

[C++ Programming Part 2](#)

[C++ Programming Part 3](#)

[C++ Programming Part 4](#)

[C++ Programming Part 5](#)

[C++ Programming Part 6](#)

C # Programming

[C # Programming](#)

C++ & Java Programming Course

[Speed C Programming.zip](#)

[Turbo C.zip](#)

[C Programming 1.zip](#)

[C Programming 2.zip](#)

[C Programming 3.zip](#)

[C Programming 4.zip](#)

[C Programming 5.zip](#)

[C Programming 6.zip](#)

[C Programming 7.zip](#)

[C Programming 8.zip](#)

Part 2 Competency units of the subject

IT + Programming 1

[IT 401 Object Oriented Programming \(1 pt\)](#)

[IT 402 Structured Programming \(1 pt\)](#)

[IT 403 Visual Basic Programming \(1 pt\)](#)

EXERCISE ASSESSMENT (20)

Based on the study you got from the above resources, write a professional experiences and competency report for engineering tasks in electrical power supply in above mentioned format & submit it to the assessor.

(Weighted informal learning time for CPD including study & report= 20Hr x 0.5= 10Hr)

IX. Microprocessor System

1. Introduction to Microprocessor System
2. Architecture of the 8088/ 8086 Microprocessor
3. Addressing Modes
4. Assembly Language Programming
5. The architecture of Intel microprocessor families

X. Computer Architecture and Engineering

1. Classic components of a computer
2. Measuring Performance
3. Major factors for performance of a computer
4. MIPS assembly Language Programming

Computer Programming

UEENEED027B	Develop structured programs for control sub systems to access external devices
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UEENEED009B	Develop, enter and verify programs for industrial control systems using high level instruction
-------------	--

[Microprocessor Notes upload.zip](#)

[Microprocessor Textbook to upload.zip](#)

[Microprocessor References to upload.zip](#)

[Speed C Programming.zip](#)

[Turbo C.zip](#)

[C Programming 1.zip](#)

[C Programming 2.zip](#)

[C Programming 3.zip](#)

[C Programming 4.zip](#)

[C Programming 5.zip](#)

[C Programming 6.zip](#)

[C Programming 7.zip](#)

[C Programming 8.zip](#)

MP LAB

[33014K.pdf](#)

[DS-51317H.pdf](#)

[DS-51761B.pdf](#)

[MPLAB Integrated Development Environment.doc](#)

[MPLAB IDE 8 50 Release Notes.zip](#)

[MPLAB User Guide 51519c.pdf](#)

[Stage 4 Part 5A.zip](#)

[http://www.filefactory.com/file/c0cc4a1/n/Stage 4 Part 5A.zip](http://www.filefactory.com/file/c0cc4a1/n/Stage_4_Part_5A.zip)

[Stage 4 Part 5B.zip](#)

[http://www.filefactory.com/file/c0c3a6e/n/Stage 4 Part 5B.zip](http://www.filefactory.com/file/c0c3a6e/n/Stage_4_Part_5B.zip)

EXERCISE ASSESSMENT

Based on the study you got from the above resources, write a professional experiences and competency report for engineering tasks in electrical power supply in above mentioned format & submit it to the assessor.

(Weighted informal learning time for CPD including study & report= 20Hr x 0.5= 10Hr)

STUDY MATERIALS (Electrical Engineering Code and Standard)

Myanmar Electrical Regulations

IEE2002

Electrical Building Services IEE based

Domestic Electric Wiring BS7671 2008

IEEE colored books

Handbook of Electrical Design Details

American Electricians' Handbook, 15th Edition

Electrical Eng Portable handbook NEC (2)

Newnes Electrical Power Engineer Handbook

Newnes Electrical Engineers Handbook

Energy Management Handbook 6E

Handbook of Electrical Installation Practice UK

Power Fault Calculation & Protection Cable Selection Note

Power Data Planning India