



## **REQUIREMENTS FOR CERTIFICATE IN WELDING AND FABRICATION ENGINEERING**

### **LIST OF STATIONERY**

1. 1 (One) Ream of photocopying papers
2. 1 (One) Spring file
3. Writing materials throughout the course

### **BOOKS**

- 1 The Motivate series, Practical Welding, Moran Publishers, by Stuart Gibson
- 2 Welding Fundamentals, 5<sup>th</sup> Ed., by William, Kevin, Mark Bowditch
- 3 Mathematics for craft engineering students by Kamau &Uppal
- 4 Technician Mathematics by J.O Bird BK I, II AND III
- 5 Geometric and Engineering Drawing by K.Morling
- 6 Scientific calculator

### **TECHNICAL DRAWING REQUIREMENTS**

1. An A2 Size drawing Board
2. Tee Square fitting to the drawing board
3. 200mm 45<sup>0</sup> clear plastic set square
4. 250mm 30<sup>0</sup> and 60<sup>0</sup> clear plastic set square
5. 150mm Clear transparent plastic protractor
6. Plastic ruler, 2H ,H and HB Pencil eraser and Sharpener
7. Engineering drawing set box

### **WORKSHOP REQUIREMENTS**

1. Navy Blue Dust coat/Overall
2. Closed leather shoes

**N/B**

**Students are encouraged to have a laptop or tablet/Smartphone**



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2. Welding Fundamentals, 5<sup>th</sup> Ed., by William, Kevin, Mark Bowditch
3. Applied mathematics by Stroud-Year 1
4. Theory of Machines by R.S Khurmi & J.K Gupta – Year II
5. Applied thermodynamics for engineering technologist by T.D East and A.Mcconkey
6. Geometric and Engineering Drawing by K. Morling
7. Fluid mechanics Volume 1 and II by J.F Douglas – Year III
8. Scientific calculator

### **TECHNICAL DRAWING REQUIREMENTS**

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4. 250mm 30<sup>0</sup> and 60<sup>0</sup> clear plastic set square
5. 150mm Clear transparent plastic protractor
6. Plastic ruler, 2H and HB Pencil eraser and Sharpener
7. Engineering drawing set box

### **WORKSHOP REQUIREMENTS**

1. Navy Blue Dust coat/Overall
2. Closed leather shoes

## **REQUIREMENTS FOR CERTIFICATE IN AUTOMOTIVE ENGINEERING**

### **LIST OF STATIONERY**

4. 1 (One) Ream of photocopying papers
5. 1 (One) Spring file
6. Writing materials throughout the course

### **BOOKS**

1. The Motivate series, Motor Vehicle Technology for Mechanics by P.P.J Read & V.C Reid  
Or  
Automotive Artisans Training Course Book 1 by George K Minyaru
1. Mathematics for craft engineering students by Kamau &Uppal



2. Fundamentals of Motor Vehicle Technology, Bk1, 5th ed, V.A.W. Hillier.
3. Technician Mathematics by J.O Bird BK I, II AND III
4. Geometric and Engineering Drawing by K.Morling
5. Scientific calculator

#### **TECHNICAL DRAWING REQUIREMENTS**

8. An A2 Size drawing Board
9. Tee Square fitting to the drawing board
10. 200mm 45<sup>0</sup> clear plastic set square
11. 250mm 30<sup>0</sup> and 60<sup>0</sup> clear plastic set square
12. 150mm Clear transparent plastic protractor
13. Plastic ruler, 2H ,H and HB Pencil eraser and Sharpener
14. Engineering drawing set box

#### **WORKSHOP REQUIREMENTS**

3. Navy Blue Dust coat/Overall
4. Closed leather shoes

**N/B**

**Students are encouraged to have a laptop or tablet/Smartphone**

### **REQUIREMENTS FOR DIPLOMA IN AUTOMOTIVE ENGINEERING**

#### **LIST OF STATIONERY**

4. 1 (One) Ream of photocopying papers
5. 1 (One) Spring file
6. Writing materials throughout the course

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Or  
Automotive Artisans Training Course Book 1 by George K Minyaru
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4. Theory of Machines by R.S khurmi & J.K Gupta – Year II
5. Applied thermodynamics for engineering technologist by T.D East and A.Mcconkey
6. Geometric and Engineering Drawing by K. Morling
7. Fluid mechanics Volume 1 and II by J.F Douglas – Year III
8. Scientific calculator

#### **TECHNICAL DRAWING REQUIREMENTS**

8. An A2 Size drawing Board
9. Tee Square fitting to the drawing board



10. 200mm 45° clear plastic set square
11. 250mm 30° and 60° clear plastic set square
12. 150mm Clear transparent plastic protractor
13. Plastic ruler, 2H and HB Pencil eraser and Sharpener
14. Engineering drawing set box

### **WORKSHOP REQUIREMENTS**

3. Navy Blue Dust coat/Overall
4. Closed leather shoes

**N/B**

**Students are encouraged to have a laptop or tablet/Smartphone**

### **REQUIREMENTS FOR CERTIFICATE IN MECHANICAL ENGINEERING**

#### **LIST OF STATIONERY**

1. 1 (One) Ream of foolscaps
2. 1 (One) Spring file
3. Writing materials throughout the course

#### **BOOKS**

1. Production Technology by R. K Jain
- 2 Mathematics for craft engineering students by Kamau &Uppal
- 3 Applied Science by R. C Stephens.
- 4 Strength of materials by R. C Stephens.
- 5 Mechanics of Machine by R. C Stephens.
- 6 Technician Mathematics by J.O Bird BK I, II AND III
- 7 Geometric and Engineering Drawing by K.Morling
- 8 Scientific calculator- FX82MS

#### **TECHNICAL DRAWING REQUIREMENTS**

1. Tee Square fitting to the drawing board
2. 200mm 45° clear plastic set square
3. 250mm 30° and 60° clear plastic set square
4. 150mm Clear transparent plastic protractor
5. Plastic ruler, 2H, H and HB Pencil eraser and Sharpener
6. Engineering drawing set box

#### **WORKSHOP REQUIREMENTS**

1. Navy Blue Dust coat/Overall



2. Closed leather shoes

**N/B**

**Students are encouraged to have a laptop or tablet/Smartphone**

## **REQUIREMENTS FOR DIPLOMA IN MECHANICAL ENGINEERING - PRODUCTION OPTION**

### **LIST OF STATIONERY**

1. 1 (One) Ream of foolscaps
2. 1 (One) Spring file
3. Writing materials throughout the course

### **BOOKS**

- 1 Production Technology by R. K Jain.
- 2 Applied mathematics by Stroud-Year 1
- 3 Theory of Machines by R.S khurmi & J.K Gupta – Year II
- 4 Applied thermodynamics for engineering technologist by T.D East and A.Mcconkey
- 5 Geometric and Engineering Drawing by K. Morling
- 6 Fluid mechanics Volume 1 and II by J.F Douglas – Year III
- 7 Scientific calculator- FX82MS

### **TECHNICAL DRAWING REQUIREMENTS**

1. Tee Square fitting to the drawing board
2. 200mm 45° clear plastic set square
3. 250mm 30° and 60° clear plastic set square
4. 150mm Clear transparent plastic protractor
5. Plastic ruler, 2H and HB Pencil eraser and Sharpener
6. Engineering drawing set box

### **WORKSHOP REQUIREMENTS**

1. Navy Blue Dust coat/Overall
2. Closed leather shoes

**N/B**

**Students are encouraged to have a laptop or tablet/Smartphone**