

Student Name:

Date:


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| Unit 19 | Introduction to Motorcycle maintenance | Level: | ONE | Sheringham High School Motors |
| | | Credit Value: | 4 | |
| | | Unit Code: | L/501/7029 | |

| | |
|--|------------------------------------|
| Task: Motorcycle Components No 19.1 | Assessment Criteria 2.1,2.2 |
|--|------------------------------------|

Instructions to Learners

1. Investigate the layout of a modern motorcycle
2. Complete the table below by identifying the numbered parts on the diagram

| Component | Number |
|-----------------|--------|
| Engine | |
| Disc Brake | |
| Drive Chain | |
| Rear Suspension | |
| Exhaust | |
| Fuel Tank | |
| Headstock | |



| Assessor Checklist | Achieved Y/N |
|---------------------------------|-----------------|
| PPE selected and used correctly | |
| Methodical Procedures used | |
| Report completed | |

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Assessor Declaration

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Assessor Signature..... Date.....

Learner Signature..... Date.....

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Task: Remove and Refit Body Components No 19.2 Assessment Criteria 3.1,3.2

| Machine Details | Special Tools |
|---|---------------|
| Make _____ Model _____ Year _____ | |

Instructions to Learners

1. Secure Motorcycle
2. Remove each of the following body components
 - Seat and tank paying particular attention to safety regarding the handling of fuel
 - Fairings
 - Front and rear mudguards
3. Refit all panels ensuring correct alignment where required

| Assessor Checklist | Achieved Y/N |
|---------------------------------|-----------------|
| PPE selected and used correctly | |
| Methodical Procedures used | |
| Alignment checked | |

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Task: Replace Rear Damper Unit No 19.3 **Assessment Criteria 3.3**

| Machine Details | Special Tools | Fixing Bolt Torque | |
|---|---------------|--------------------|--|
| Make _____ Model _____ Year _____ | | Upper | |
| | | Lower | |

- Instructions to learners**
1. Secure machine with rear wheel clear of the ground
 2. Remove body panels as required
 3. Remove the damper lower fixing
 4. Support the damper and remove upper fixing
 5. Remove damper, carry out visual checks for leakage/damage, manually check correct operation
 6. Replace damper
 7. Adjust damper settings as required

| Assessor Checklist | Achieved Y/N |
|---------------------------------|-----------------|
| PPE selected and used correctly | |
| Methodical Procedures used | |
| Report completed | |

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**Task: Remove, Examine and refit Engine Head and Barrel No 19.4 Assessment Criteria 3.4
3.5**

| Machine Details | Special Tools | Cylinder Head Torque |
|---|---------------|----------------------|
| Make _____ Model _____ Year _____ | | |

Instructions to Learners

It is recommended that this task be carried out on a stock single or twin cylinder engine that has been removed from the frame

1. Secure engine prior to dismantling
2. Following manufactures procedures, remove the cylinder head and barrel
3. Examine the cylinder head for signs of wear and report findings
4. Examine barrel for signs of wear and report findings
5. Following manufactures procedures, refit barrel and cylinder head
6. Complete the condition report below

| Condition Report | |
|----------------------------------|-----------|
| Components | Condition |
| Cylinder Head | |
| Head surface | |
| Camshaft bearings and tensioners | |
| Valve and springs | |
| Camshaft | |
| Barrel | |
| Bore scoring | |
| Bore wear | |
| Piston ring damage | |
| Piston ring groove wear | |

Student Name:

Date:

| Assessor Checklist | Achieved Y/N |
|---------------------------------|-------------------------|
| PPE selected and used correctly | |
| Methodical Procedures used | |
| Data completed | |

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| | |
|--|--------------------------------|
| Task: Replace Brake Pads or Shoes No 19.5 | Assessment Criteria 3.6 |
|--|--------------------------------|

| Machine Details | Special Tools | Data | | | | | | | | | | | | | | | | | | |
|--|---------------|---|--|--|-------------------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Make _____ | | <table border="1" style="width: 100%; height: 100%;"> <tr> <td style="width: 80%;">Type of braking System (Disc or Drum)</td> <td style="width: 20%;"></td> </tr> <tr> <td>Condition Report</td> <td></td> </tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> </table> | Type of braking System (Disc or Drum) | | Condition Report | | | | | | | | | | | | | | | |
| Type of braking System (Disc or Drum) | | | | | | | | | | | | | | | | | | | | |
| Condition Report | | | | | | | | | | | | | | | | | | | | |
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| Model _____ | | | | | | | | | | | | | | | | | | | | |
| Year _____ | | | | | | | | | | | | | | | | | | | | |
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Instructions to Learners

1. Secure machine
2. Identify brake system as **DISC** or **DRUM BRAKES**
3. Following manufactures procedure remove **EITHER**
 - Brake Disc Pad

OR

 - Brake Shoes
4. Examine pads and disc or shoes and drum for condition
5. Following manufactures procedure replace pads or shoes
6. Adjust braking system as required
7. Check braking system for correct operation

| Assessor Checklist | Achieved Y/N |
|---------------------------------|-------------------------|
| PPE selected and used correctly | |
| Methodical Procedures used | |
| Data completed | |

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Task: Identify and Test Devices No 19.6 **Assessment Criteria 4.1, 4.2**

| |
|--|
| Machine Details |
| Make _____ |
| Model _____ |
| Year _____ |
| Instructions to Learners 1. Locate the following safety devices • Neutral Starter Switch • Side Stand Safety Switch • Engine Kill switch 2. Test each device for correct operation 3. Complete the report below |

| Safety Device Report | | | |
|-------------------------------------|-----------------|----------------------------------|-----------------------|
| Safety Device | Location | Correct Operation Y/N | Recommendation |
| Neutral Starter Switch | | | |
| Side Stand Safety Switch | | | |
| Engine Kill Switch | | | |

| Assessor Checklist | Achieved Y/N |
|---------------------------------|-------------------------|
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Task: Periodic Maintenance No 19.7 **Assessment Criteria 5.1,5.2**

| Machine Details | Special Tools |
|---|---------------|
| Make _____ Model _____ Year _____ | |

Instructions to Learners
1. Carry out a periodic maintenance check using the checklist on the next page
2. Report ant actions required

| Assessor Checklist | Achieved Y/N |
|---------------------------------|-----------------|
| PPE selected and used correctly | |
| Methodical Procedures used | |
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|-------------------------------------|--------------------------------|
| Task: Waste Disposal No 19.8 | Assessment Criteria 6.1 |
|-------------------------------------|--------------------------------|

Instructions to Learners
State in the space provided below the correct procedure for disposing of waste Motorcycle components IN YOUR WORKSHOP

| Components | Correct Disposal |
|----------------------|------------------|
| Used Lubrication Oil | |
| Oil and Air Filters | |
| Used Components | |
| Motorcycle Tyres | |

| Assessor Checklist | Achieved Y/N |
|---------------------------------|-----------------|
| PPE selected and used correctly | |
| Methodical Procedures used | |
| Report completed | |

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Motorcycle Routine Maintenance Checklist 5.2

| Machine Details | Data | |
|-----------------|--------------------------------|--|
| Make: | Engine oil specification | |
| Model: | Transmission oil specification | |
| Year: | Minimum Legal tyre tread depth | |

| Task: | Complete | Action items |
|-----------------------------------|-------------|--------------|
| Wheels & Tyres | | |
| Wheel Condition | F.... R.... | |
| Tyre Condition | F.... R.... | |
| Tyre Tread Depth | F.... R.... | |
| Braking Systems | | |
| Front Brake Lever Travel | | |
| Rear Brake Pedal/Lever Travel | | |
| Condition of System (visual only) | | |
| Fluid Level | | |
| Suspension Systems | | |
| Leakage | F.... R.... | |
| Correct operation | | |
| Security | | |
| Lighting Equipment | | |
| Front | | |
| Rear | | |
| Stop Lamp | | |
| Direction Indicators | | |
| Transmission | | |
| Fluid Level | | |
| Adjustment of Final Drive Train | | |
| Adjustment of Final Drive Belt | | |
| Fluid Leaks | | |
| Exhaust Systems | | |
| Security | | |

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| | | |
|------------------|--|--|
| Condition | | |
| Engine | | |
| Oil Level | | |
| Oil Leaks | | |

| Assessor Checklist | Achieved Y/N |
|---------------------------------|-------------------------|
| PPE selected and used correctly | |
| Methodical Procedures used | |
| Report completed | |

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