

## **Maintenance & Repair - Motorcycle** **(Assessment Requirements-Competency Units)**

### **Assessment Requirements**

#### **Unit G0102C – Demonstrating Competence in Health, Safety and Good Housekeeping in the Automotive Environment**

##### General Requirements

You must:

1. produce evidence to show you meet **all** of the Learning Outcomes
2. produce performance evidence resulting from work you have carried out on real vehicles in your normal workplace or as defined within the IMI VCQ Assessment Strategy as managed and organised by an approved centre when naturally occurring performance evidence does not occur at frequent intervals in your normal workplace or when safety is at risk.
3. be observed by an assessor as defined in the IMI VCQ Assessment Strategy.
4. produce evidence of use of personal and vehicle protection, cleaning the work environment and disposal of waste on **3** separate **occasions**.
5. be observed by your assessor on at least **1** occasion carrying out the above.
6. produce evidence of identifying risks which may result from at least **2** of the items listed below:
  - the use and maintenance of machinery or equipment
  - the use of materials or substances
  - working practices which do not conform to laid down policies
  - unsafe behaviour
  - accidental breakages and spillages
  - environmental factors
7. be observed by your assessor on at least **1** occasion carrying out the above.
8. produce evidence of following at least **4** of the workplace policies listed below:
  - the use of safe working methods and equipment
  - the safe use of hazardous substances
  - smoking, eating, drinking and drugs
  - what to do in the event of an emergency
  - personal presentation
9. be observed by your assessor following workplace policies on at least **1** occasion

## Assessment Requirements

### Unit G3C – Demonstrating Competence in Support Skills for Job Roles in the Automotive Work Environment

#### General Requirements

You must:

1. produce evidence to show you meet **all** of the Learning Outcomes
2. produce performance evidence resulting from work you have carried out on real vehicles in your normal workplace or as defined within the IMI VCQ Assessment Strategy as managed and organised by an approved centre when naturally occurring performance evidence does not occur at frequent intervals in your normal workplace or when safety is at risk.
3. be observed by an assessor as defined in the IMI VCQ Assessment Strategy.
4. produce evidence that you have worked well with others in the automotive industry
5. be observed by your assessor on at least **3** occasions carrying out the above whilst performing your normal work duties.

## Assessment Requirements

### Unit G6C – Demonstrating Competence in Making Learning Possible through Demonstration and Instruction

#### General Requirements

You must:

1. produce evidence to show you meet **all** of the Learning Outcomes
2. produce performance evidence resulting from work you have carried out in your normal workplace or as defined within the IMI VCQ Assessment Strategy as managed and organised by an approved centre when naturally occurring performance evidence does not occur at frequent intervals in your normal workplace or when safety is at risk.
3. be observed by an assessor as defined in the IMI VCQ Assessment Strategy **or** by a witness who has been previously agreed with the assessor prior to the observation taking place.
4. provide at least **1 record** of an activity which has been demonstrated.
5. provide records of at least **2 observations**, **1** of which **must be** by your assessor, which cover at least **1 demonstration** and **1 instruction or a combination of both**.

It is expected that the **records** must include evidence to show how you:

- decided on the sequence of the demonstration
- ensured that the demonstration was accurate and realistic
- identified which learning outcomes were achieved
- ensured a safe environment for the demonstration and allowed all learners to see the demonstration clearly

In preparing the records you should consider:

- which types of learning are best achieved and supported through demonstrations
- how to choose between instruction and demonstration as learning methods
- how to identify individual learning needs
- which factors are likely to prevent learning and how to overcome them
- how to choose and prepare appropriate materials, including technology based materials.
- which types of learning are best achieved through instruction
- how to make sure everybody acts in line with health, safety and environmental protection legislation and best practice

- how to analyse developments in learning and new ways of delivery, including technology based learning

It is also expected that evidence from your observations **will show** how you:

- structured the demonstration so that the learner got the most out of it
- encouraged learners to ask questions and get explanations at appropriate stages in the demonstration
- gave learners the opportunities to practice the skill being demonstrated
- gave learners positive feedback
- reinforced learning by repeating demonstration
- responded to the needs of learners during the demonstration
- reduced distractions and disruptions as much as possible
- matched instruction to the needs of learners
- ensured that the manner, level and speed of the instruction encourages learners to take part
- regularly check that learners understand and adapt instruction as appropriate
- gave learners positive feedback on the learning experience and the outcome achieved
- identified anything that prevented learning and reviewed this with the learner

## Assessment Requirements

### Unit G8C – Demonstrating Competence in Identifying and Agreeing Motor Vehicle Customer Service Needs

#### General Requirements

You must:

1. produce evidence to show you meet **all** of the Learning Outcomes
2. produce performance evidence resulting from work you have carried out on real vehicles in your normal workplace or as defined within the IMI VCQ Assessment Strategy as managed and organised by an approved centre when naturally occurring performance evidence does not occur at frequent intervals in your normal workplace or when safety is at risk.
3. be observed by an assessor as defined in the IMI VCQ Assessment Strategy.
4. produce evidence, including records, to show that you have dealt with **3 different customers**.
5. be observed by your assessor in your normal workplace dealing with **at least 1 customer**

## Assessment Requirements

### Unit MC01C – Demonstrate Competency in Routine Motorcycle Maintenance

#### General Requirements

You must:

1. produce evidence to show you meet **all** of the Learning Outcomes
2. produce performance evidence resulting from work you have carried out on real vehicles in your normal workplace or as defined within the IMI VCQ Assessment Strategy as managed and organised by an approved centre when naturally occurring performance evidence does not occur at frequent intervals in your normal workplace or when safety is at risk.
3. be observed by an assessor as defined in the IMI VCQ Assessment Strategy.
4. You must produce evidence of competently carrying out servicing activities on **at least 3 different vehicles** which collectively cover the Learning Outcomes.
5. Your assessor must physically observe you **in your normal workplace** carrying out a range of servicing activities on **at least 1 occasion**.

## Assessment Requirements

### Unit MC02C – Demonstrate Competency in Removing and Replacing Motorcycle Engine Units and Components

#### General Requirements

You must:

1. produce evidence to show you meet **all** of the Learning Outcomes
2. produce performance evidence resulting from work you have carried out on real vehicles in your normal workplace or as defined within the IMI VCQ Assessment Strategy as managed and organised by an approved centre when naturally occurring performance evidence does not occur at frequent intervals in your normal workplace or when safety is at risk.
3. be observed by an assessor as defined in the IMI VCQ Assessment Strategy.
4. produce evidence of removing and replacing units or components from **4** of the **6\*** systems listed below. The evidence **must** come from work **in your normal workplace**.
  - cooling systems
  - air supply and exhaust systems
  - fuel and ignition systems
  - lubrication systems (not including standard external filters)
  - transmission systems
  - clutch systems
5. be observed by your assessor on at least **1** occasion removing and replacing components or units.

\*However, you must prove to your assessor that you have the necessary knowledge and understanding to be able to perform competently in respect of **all** the systems listed above.

## Assessment Requirements

### Unit MC03C – Demonstrate Competency in Removing and Replacing Motorcycle Electrical Units and Components

#### General Requirements

You must:

1. produce evidence to show you meet **all** of the Learning Outcomes
2. produce performance evidence resulting from work you have carried out on real vehicles in your normal workplace or as defined within the IMI VCQ Assessment Strategy as managed and organised by an approved centre when naturally occurring performance evidence does not occur at frequent intervals in your normal workplace or when safety is at risk.
3. be observed by an assessor as defined in the IMI VCQ Assessment Strategy.
4. produce evidence of removing and replacing **at least 5** units or components, **each** from a **different** electrical system. At least **4** of these **5** pieces of evidence **must** come from work **in your normal workplace**.
5. be observed by your assessor on **at least 1 occasion in your normal workplace** carrying out the removal and replacement of at least **1** of the following\*:
  - engine starting
  - battery charging
6. be observed by your assessor on **at least 1 occasion in your normal workplace** successfully carrying out the removal and replacement of electrical units and components \*:
  - a. lighting
  - b. security and alarm
  - c. information and entertainment
  - d. telephone and two-way communication
  - e. monitoring and instrumentation systems

\*However, you must prove to your assessor that you have the necessary knowledge and understanding to be able to perform competently in respect of **all** the systems listed above.

Simulated activities **will be** acceptable to assess candidates' removal and replacement competence on no more than **1** occasion.



## Assessment Requirements

### Unit MC04C– Demonstrate Competency in Removing and Motorcycle Chassis Units Parts and Components

#### General Requirements

You must:

1. produce evidence to show you meet all of the Learning Outcomes
2. produce performance evidence resulting from work you have carried out on real vehicles in your normal workplace or as defined within the IMI VCQ Assessment Strategy as managed and organised by an approved centre when naturally occurring performance evidence does not occur at frequent intervals in your normal workplace or when safety is at risk.
3. be observed by an assessor as defined in the IMI VCQ Assessment Strategy.
4. produce evidence of removing and replacing **4 different units or components** in total which **must include items from** steering, suspension and braking systems. Your evidence must include demonstration of competence **in each** aspect of mechanical, electrical and hydraulic/fluid units or component removal and replacement.
5. be observed in your normal workplace on at least **1 occasion** successfully removing and replacing units and components from one of the following systems:
  - steering
  - suspension
  - braking

## Assessment Requirements

### Unit MC05C – Demonstrate Competency in Motorcycle Preparation and Inspection

#### General Requirements

You must:

1. produce evidence to show you meet all of the Learning Outcomes
2. produce performance evidence resulting from work you have carried out on real vehicles in your normal workplace or as defined within the IMI VCQ Assessment Strategy as managed and organised by an approved centre when naturally occurring performance evidence does not occur at frequent intervals in your normal workplace or when safety is at risk.
3. be observed by an assessor as defined in the IMI VCQ Assessment Strategy.
4. produce evidence of carrying out **at least 3** different inspections from the following:
  - Pre-work inspection
  - Post - work inspection
  - Pre-delivery inspection
  - Pre-purchase inspection
  - MOT test inspection
  - Safety inspection
  - Post repair inspection
5. be observed by your assessor **in your normal workplace** successfully carrying out an inspection on **at least 1 occasion**.

## Assessment Requirements

### Unit MC07C –Competency in Diagnosing and Rectifying Motorcycle Engine Faults

#### General Requirements

You must:

1. produce evidence to show you meet **all** of the Learning Outcomes
2. produce performance evidence resulting from work you have carried out in your normal workplace or in a Realistic Work Environment as managed and organised by an approved centre.
3. be observed by an assessor as defined by the IMI Assessment Strategy.
4. be observed by your assessor successfully carrying out the diagnosis and rectification of faults occurring in 3 **out of the 4** power train systems listed. The faults should involve a **2 or more** step diagnostic activity.
  - engine mechanical systems
  - engine management systems
  - engine cooling systems
  - engine lubrication systems

## Assessment Requirements

### Unit MC08C – Demonstrate Competency in Diagnosing and Rectifying Motorcycle Chassis System Faults

#### General Requirements

You must:

1. produce evidence to show you meet all of the Learning Outcomes
2. produce performance evidence resulting from work you have carried out on real vehicles in your normal workplace or as defined within the IMI VCQ Assessment Strategy as managed and organised by an approved centre when naturally occurring performance evidence does not occur at frequent intervals in your normal workplace or when safety is at risk.
3. be observed by an assessor as defined in the IMI VCQ Assessment Strategy.
4. use a **2 or more** step diagnostic activity.
5. produce evidence of diagnosing faults from **each** of the following areas:
  - Steering systems
  - Suspension systems
  - Braking systems

**2** pieces of evidence must come from work carried out **in your normal workplace**.

Your evidence **must** include the following areas: mechanical, electrical and hydraulic.

6. be observed by your assessor on **at least 2 occasions**, each observation covering the diagnosis and rectification of a fault in a different chassis system.

Simulated activity **will be** acceptable to assess candidates' competence in diagnosis and rectification on no more than **1** occasion.

## Assessment Requirements

### Unit MC12C – Competency in Diagnosing and Rectifying Motorcycle Transmission Faults

#### General Requirements

You must:

1. produce evidence to show you meet all of the Learning Outcomes
2. produce performance evidence resulting from work you have carried out on real vehicles in your normal workplace or as defined within the IMI VCQ Assessment Strategy as managed and organised by an approved centre when naturally occurring performance evidence does not occur at frequent intervals in your normal workplace or when safety is at risk.
3. be observed by an assessor as defined in the IMI VCQ Assessment Strategy.
4. use a **2 or more** step diagnostic activity.
5. produce evidence of diagnosing and rectifying at least **3** faults occurring in **3** of **the 3** systems listed\*.
  - clutch
  - gearbox
  - drive line (shafts, couplings, chains, sprockets, hubs and bearings)

**2** pieces of evidence must come from work carried out **in your normal workplace** in at least **2** of the following areas: mechanical, electrical or hydraulic.
6. be observed by your assessor on **at least 1 occasion** carrying out the diagnosis and rectification of a fault in a transmission or drive line system.

\*However, you must prove to your assessor that you have the necessary knowledge and understanding to be able to perform competently in respect of faults occurring in all the types of engine systems.

Simulated activity **will be** acceptable to assess candidates' competence in diagnosis and rectification on no more than **1** occasion.

## Assessment Requirements

### Unit AE06MC C – Demonstrate Competency in Diagnosing and Rectifying Motorcycle Electrical Faults

#### General Requirements

You must:

1. produce evidence to show you meet all of the Learning Outcomes
2. produce performance evidence resulting from work you have carried out on real vehicles in your normal workplace or as defined within the IMI VCQ Assessment Strategy as managed and organised by an approved centre when naturally occurring performance evidence does not occur at frequent intervals in your normal workplace or when safety is at risk.
3. be observed by an assessor as defined in the IMI VCQ Assessment Strategy.
4. use a **2 or more** step diagnostic activity.
5. produce evidence of carrying out the diagnosis and rectification of faults in each system listed.
  - starter
  - alternator
6. produce evidence of diagnosing and rectifying faults occurring in **4 out of the 5\*** engine systems listed, **at least 3** of which must come from work carried out **in your normal workplace**.
  - lighting
  - security and alarm
  - information and entertainment
  - telephone and two-way communication
  - monitoring and instrumentation systems
7. be observed by your assessor on **at least 2 occasions**, **each** observation covering the diagnosis and rectification of a fault in **different** systems. **Both** of these observations must be carried out **in your normal workplace**.

\*However, you must prove to your assessor that you have the necessary knowledge and understanding to be able to perform competently in respect of faults occurring in all the types of engine systems.

Simulated activity **will be** acceptable to assess candidates' competence in diagnosis and rectification on no more than **1** occasion.