Heavy vehicle service and maintenance technician standard: Employer Occupational Brief



July 2016

Competence expectations at gateways

There are three gateway competency points in the bus and coach engineering technician apprenticeship. It is expected that an apprentice will have demonstrated competence as prescribed on the following pages for their relevant trade specific pathway, which is reviewed and agreed by the employer and education and training provider before progression to the next phase of learning and development.

- Gateway 1 will usually be at the end of the first year of learning and development
- Gateway 2 will usually be at the end of the second year of learning and development
- Gateway 3 is readiness for independent end assessment when an apprentice will be competent in the core and their trade specific role as dictated in the assessment plans

Employers and education and training providers should utilise the content of this document to assist in the design of the learning and development phase of the apprenticeship.

References to National Occupational Standards (NOS) are included in the table below. NOS are held in an online database found here: http://nos.ukces.org.uk/Pages/index.aspx

Commencement of programme			
Knowledge	 Understand the correct personal and vehicle protective equipment to be used within the automotive environment Understand effective housekeeping practices in the automotive 		
Ref NOS:	 environment Understand key health and safety requirements relevant to the 		
IMIARBG1	 understand about hazards and potential risks relevant to the automotive environment 		
IMIARBG2	Understand personal responsibilities when working in the		
IMIARBG3	 automotive environment Understand key organisational structures, functions and roles within 		
IMIARBG4	 the automotive work environment Understand the importance of obtaining, interpreting and using 		
IMIHV01	information in order to support their job role within the automotive work environment		
IMIHV04	 Understand the importance of obtaining, interpreting and using information in order to support their job role within the automotive work environment 		
	 Understand communication requirements when carrying out vehicle repairs in the automotive work environment 		
	 Understand how to develop good working relationships with colleagues and customers in the automotive workplace 		
	 Understand how to select, use and care for hand tools and 	7	
	 measuring devices in the automotive environment Understand how to prepare and use common workshop equipment 	,	
	 Understand how to select materials when fabricating, modifying and repairing vehicles and fitting components 	7 (2)	
	 Understand how to apply automotive engineering, fabrication and fitting principles when modifying and repairing vehicles and components 		
	 Understand how to carry out routine heavy vehicle maintenance Understand the legal requirements applicable to carrying out heavy vehicle maintenance 		
	Understand how heavy vehicle steering systems operate		
	 Understand how heavy vehicle suspension systems operate Understand how heavy vehicle braking systems operate 		
	Understand how heavy vehicle wheel and tyre systems operate		
	 Understand the health and safety aspects when working on loaded vehicles 		
	Understand how to check, replace and test heavy vehicle chassis units and components		
Skills	Be able to use correct personal and vehicle protection within the automotive environment		
	Be able to carry out effective housekeeping practices in the		
Ref NOS:	 automotive environment Be able to recognise and deal with dangers in order to work safely 		
IMIARBG1	within the automotive workplaceBe able to conduct themselves responsibly		

IMIARBG2 Be able to work effectively within the organisational structure of the automotive work environment **IMIARBG3** Be able to obtain and use information in order to support their job role within the automotive work environment **IMIARBG4** Be able to communicate with and support colleagues and customers effectively within the automotive work environment IMIHV01 Be able to develop and keep good working relationships in the automotive work environment IMIHV04 Be able to select, maintain and use and hand tools and measuring devices in the automotive environment Be able to prepare and use common workshop equipment Be able to select materials when fabricating, modifying and repairing vehicles and fitting components Be able to apply automotive engineering, fabrication and fitting principles when modifying and repairing vehicles and components Be able to work safely when carrying out heavy vehicle routine maintenance Be able to use relevant information to carry out the task Be able to use appropriate tools and equipment Be able to carry out heavy vehicle routine maintenance Be able to record information and make suitable recommendations Be able to work safely when carrying out removal and replacement activities Be able to use relevant information to carry out the task Be able to use appropriate tools and equipment Be able to carry out removal and replacement of heavy vehicle chassis units and components. Be able to record information and make suitable recommendations **Behaviours** Apprentices should have a basic understanding of and be implementing the foundations of each of the behaviours from the standard Behave in accordance with the values of the company they work for whether manufacturer or independent to treat customers and stakeholders with courtesy and respond quickly to their requirements to ensure an excellent experience Operate effectively as a team member taking ownership and responsibility when required and be honest and accountable in all activities when things do not go as planned To work at continuous development of both self, team and processes

Typically year 3

Gateway 2

This could be a natural point to achieve a qualification such as the level 2 diploma in heavy vehicle maintenance

Knowledge	Understand vehicle electrical and electronic principles	
	 Understand how light vehicle auxiliary electrical systems operate 	
Ref NOS:	 Understand how to diagnose and rectify faults in auxiliary 	
	electrical systems	
IMIARBG8	 Understand how to carry out inspections on heavy vehicles using 	
	prescribed methods	
IMIAEMEI06	1	
IMIHV05	Understand how to diagnose and rectify faults in heavy vehicle	
	engine systems	
IMIHV06	Understand how the heavy vehicle chassis systems operate	
	 Understand how to diagnose and rectify faults in heavy vehicle 	
IMIHV07	chassis systems	
	 Understand legislative and organisational requirements and 	
IMIHV08	procedures	
	 Understand how to communicate and care for customers 	
IMIHV11K	 Understand company products and services 	
	 Understand how to overhaul heavy vehicle engine units 	
Skills	Be able to work safely when carrying out automotive vehicle	
	auxiliary electrical diagnostic and rectification activities	
	Be able to use relevant information to carry out the task	
	Be able to use appropriate tools and equipment	
Ref NOS:	Be able to carry out automotive vehicle auxiliary electrical	
	diagnosis, rectification and test activities	
IMIARBG8	Be able to record information and make suitable	
	recommendations	
IMIAEMEI06	Be able to work safely when carrying out heavy vehicle inspections	
IMIHV05	Be able to use relevant information to carry out the task Be able to use relevant information to carry out the task	
	Be able to use appropriate tools and equipment	
IMIHV06	Be able to carry out heavy vehicle inspections	
18 411 18 40 7	Be able to work safely when carrying out heavy vehicle engine	
IMIHV07	diagnostic and rectification activities	
IMIHV08	Be able to use relevant information to carry out the task	
HVIIIIVOO	Be able to use appropriate tools and equipment	
	Be able to carry out heavy vehicle engine diagnosis, rectification	
	and test activities	
	 Be able to work safely when carrying out heavy vehicle chassis 	
	diagnostic and rectification activities	
	Be able to use relevant information to carry out the task	
	Be able to use appropriate tools and equipment	
	Be able to carry out heavy vehicle chassis diagnosis, rectification	
	and test activities	
	Be able to obtain relevant information from the customer	
	Be able to provide relevant information to the customer	
	se able to provide relevant information to the customer	

	 Be able to agree work undertaken with the customer Be able to ensure recording systems are implemented correctly
Behaviours	 At gateway 3 it is expected the behaviours from the apprenticeship standard are embedded into an apprentice's work and are naturally displayed at all times

Gateway 3 – Ready for independent end assessment

This could be a natural point to achieve a qualification such as the level 3 diploma in heavy vehicle maintenance