



TRANSNATIONAL SKILL STANDARDS FOR AUTOMOTIVE INDUSTRY

Transnational Skill Standards Auto Service Technician Level 4

REFERENCE ID: TOS/ASC/Q1402

TRANSNATIONAL SKILL STANDARDS FOR AUTOMOTIVE INDUSTRY

Mapping for Auto Service Technician Level 4 (ASC/Q1402) with UK qualification in Light Vehicle Maintenance and Repair

Link to Indian Qualification Pack: <http://www.nsdcindia.org/sites/default/files/files/Auto-Service-Technician-Level4.pdf>

Links to UK Qualification: <http://nos.ukces.org.uk/Pages/index.aspx>

How to Read this Document

This document has two sections - **Section I** and **Section II**.

Section I: Compares the NOS listing in the Indian QP – **Auto service technician level 4 (ASC/Q1402) with UK qualification in Light Vehicle Maintenance and Repair**.

Section II: Compares the competencies described in each of the Indian NOS with those of UK.

The language of the compared competencies of the two countries differs. However, the competency pointers of the described competency can be mapped. Wherever the competency pointer maps it is reported as 'None' under the column 'Gap in Indian NOS'. Wherever the competency pointers do not map, it is identified as a gap and the corresponding UK competency is noted under the column 'Gap in Indian NOS'.

Usage of Benchmarked Transnational Standards

There will be two types of users of these benchmarked standards. One type will be of those individuals who are already trained and are certified on the corresponding Indian QP. This set of individuals will have to undergo a bridge course comprising of the identified gaps only. Thereafter, they will be assessed under the aegis of a UK Awarding body through the Indian SSC on the competency portions acquired via the bridge course. All qualifying individuals will be awarded a co-branded certificate comprising of logo of Skill India, Indian SSC and UK Awarding Body.

Those individuals who wish to be certified afresh will have to undergo training on both the Indian QP and the gaps in the Indian NOS with regard to UK competencies. Thereafter, they will be assessed under the aegis of a UK Awarding body through the Indian SSC and They will obtain a co-branded certificate comprising of logo of Skill India, Indian SSC and UK Awarding Body.

TRANSNATIONAL SKILL STANDARDS FOR AUTOMOTIVE INDUSTRY

Section I: NOS mapping of Auto service technician level 4 (ASC/Q1402) with UK qualification in Light Vehicle Maintenance and Repair.

NOS Mapping: A Summary				
Indian NOS Code	Indian NOS	UK NOS Code	UK NOS	Remarks, if any
ASC/ N1402	Assist in performing diagnosis of vehicle for repair requirements	IMILV01	Carry out routine light vehicle maintenance	
ASC/ N1403	Carry out routine service and minor repairs of mechanical & electrical aggregates	IMILV01	Carry out routine light vehicle maintenance	
ASC/ N0001	Plan and organise work to meet expected outcomes			
ASC/ N0002	Work effectively in a team	IMIMCA03	Maintain Working Relationships in the Motor Vehicle Environment	
ASC/ N0003	Maintain a healthy, safe and secure working environment	IMIMCA02	Reduce Risk(s) to Health and Safety in the Motor Vehicle Environment	

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Section II: Compares the competencies in Indian NOS with those of UK NOS.

NOS Mapping Descriptions			
Indian QP Title	Auto Service Technician Level 4	UK Qualification	Light vehicle maintenance and Repair
Indian QP Code	ASC/ Q 1402	UK Qualification Code	QCF 500/9819/6
Indian NOS Code	ASC/ N1402	UK NOS Code	IMILV01
Indian NOS	Assist in performing diagnosis of vehicle for repair requirements	UK NOS	Carry out routine Light vehicle maintenance
Scope	Assist the senior technician in identifying & diagnosis of the operational fault responsible for the root cause of the vehicle trouble Assist in taking necessary action post the root cause analysis to repair the vehicle	Overview	This NOS is about conducting routine maintenance, adjustment and replacement activities as part of the periodic servicing of light vehicles.

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Competency Mapping

Performance Criteria - Indian NOS	Performance Criteria - UK NOS	Gaps in Indian NOS
Assist in performing diagnosis of vehicle for repair requirements	Carry out routine light vehicle maintenance	
PC12. understand the various precautions to be taken to avoid damage to the vehicle and its components while working on diagnosis or troubleshooting the vehicle for any faults	P1.use suitable personal protective equipment and vehicle coverings throughout all vehicle maintenance activities	None
PC13. ensure all workshop tools, equipment and workstations are adequately maintained by carrying out scheduled checks, calibration and timely repairs where necessary	P2.prepare the vehicle systems and work area for safe working procedures (where appropriate)	None
PC8. Use checklists and standard OEM operating procedures to understand if the fault is because of improper servicing, or low levels of oils, coolants, grease etc. or poor quality oil/ air filters etc.	P3.use suitable sources of technical information to support all your vehicle maintenance activities	None
PC1. understand the auto component manufacturer specifications related to the various components/ aggregates in the vehicle	P4.Adhere to the correct specifications and tolerances for the vehicle when making assessments of system and component performance	None
PC3. conduct test drives to assess need for repairs, calibration or any other adjustments in the electrical/ mechanical aggregates in the		

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Performance Criteria - Indian NOS	Performance Criteria - UK NOS	Gaps in Indian NOS
vehicle		
		P5.Record details accurately and use this adapted specification as the basis for your examination and assessment where the customer's vehicle falls outside the manufacturer's original specification
PC5. ensure OEM recommended procedure and checklist is followed for routine servicing in case of non-routine service or repair, confirm tasks to be carried out with superior	P6.examine the vehicle's systems and components following: P6.1 the manufacturer's approved examination methods P6.2 recognised repair methods P6.3 your workplace procedures P6.4 health and safety requirements	None
PC11. understand the various precautions to be taken to avoid damage to the vehicle and its components while working on other aggregates		
PC12. record all service and repairs carried out and ensure completeness of tasks assigned before releasing vehicle for the next procedure		
PC7. follow instructions of seniors for specific tasks related to diagnosing faults in the various sub-assemblies and aggregates in a vehicle	P7.Ensure your examination methods identify accurately any vehicle system and component problems falling outside the maintenance	None

TRANSNATIONAL SKILL STANDARDS FOR AUTOMOTIVE INDUSTRY

Performance Criteria - Indian NOS	Performance Criteria - UK NOS	Gaps in Indian NOS
PC8. Use checklists and standard OEM operating procedures to understand if the fault is because of improper servicing, or low levels of oils, coolants, grease etc. or poor quality oil/ air filters etc.	schedule specified	
		P8.carry out adjustments, replacement of vehicle components and replenishment of consumable materials following the manufacturer's current specification for: P8.1 the particular maintenance interval P8.2 working methods and procedures P8.3 use of equipment P8.4 the tolerances for the vehicle
PC4. review the job card and understand work to be carried out	P9.Record the details accurately and take action which complies with the customer's instructions where system adjustments cannot be made within the manufacturer's specification	None
PC5. Ensure OEM recommended procedure and checklist is followed for routine servicing in case of non-routine service or repair, confirm tasks to be carried out with superior		
PC12. understand the various precautions to be taken to avoid damage to the vehicle and its components while working on diagnosis or troubleshooting the vehicle for any faults	P10.work in a way which minimises the risk of damage to the vehicle and its systems and the surrounding area	None

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Performance Criteria - Indian NOS	Performance Criteria - UK NOS	Gaps in Indian NOS
		P11.use suitable testing methods to evaluate the performance of all replaced and adjusted components and systems accurately, prior to returning the vehicle to the customer
		P12.report any problems or issues relating to the vehicle's condition or conformity to the relevant person(s) promptly
		P13.ensure your maintenance records are accurate, complete and passed to the relevant person(s) promptly in the format required
		P14.complete all vehicle maintenance activities within the agreed timescale
		P16.report any anticipated delays in completion to the relevant person(s) promptly
Knowledge & Understanding; Organisational Context	Knowledge & Understanding; Organisational Context	
KA1. standard operating procedures for servicing and repair of vehicles as prescribed by the OEM/ dealership	K1.the manufacturer's and warranty requirements relating to routine maintenance activities for vehicle systems and components	None
KA2. standard schedules and checklists recommended by the OEM/ auto components manufacturer for servicing of vehicles		
KA9. safety, health and environmental policies and	K2.the legal requirements relating to the vehicle	None

TRANSNATIONAL SKILL STANDARDS FOR AUTOMOTIVE INDUSTRY

Performance Criteria - Indian NOS	Performance Criteria - UK NOS	Gaps in Indian NOS
<p>regulations for the workplace as well as for automotive trade in general (e.g. safe working practices inside pits/ under vehicles)</p> <p>KA6. safety requirements for equipment and components prescribed by the OEM (e.g. preventing/ dealing with oil spillage and inflammable materials)</p>	<p>maintenance activities for vehicle systems and components</p>	
<p>KA7. safety, health, environmental policies and regulations for the workplace as well as for Automotive trade in general (e.g. safe practices while working in pits/ under vehicles)</p>	<p>K3.the legislation and workplace procedures relevant to: K3.1 health and safety K3.2 the environment (including waste disposal) K3.3 appropriate personal and vehicle protection</p>	None
<p>KA5. Standard operating procedures for rectification of errors in information (e.g. rectification of job card, reissue of correct tools and equipment etc.)</p> <p>KA6. safety requirements for equipment and components prescribed by the OEM (e.g. preventing/ dealing with oil spillage and inflammable materials)</p> <p>KA7. documentation requirements for each procedure carried out as part of roles and responsibilities as specified by OEM/ auto component manufacturer</p>	<p>K4.your workplace procedures for: K4.1 recording vehicle maintenance work and any variations from the original vehicle specification K4.2 the referral of problems K4.3 reporting delays to the completion of work</p>	None

TRANSNATIONAL SKILL STANDARDS FOR AUTOMOTIVE INDUSTRY

Performance Criteria - Indian NOS	Performance Criteria - UK NOS	Gaps in Indian NOS
KA5. documentation requirements for each procedure carried out as part of roles and responsibilities as specified by OEM/ auto component manufacturer for the diagnosis of troubleshooting the vehicle for faults	K5.the importance of documenting vehicle maintenance information	None
		K6.the importance of working to agreed timescales and keeping others informed of progress
		K7.the relationship between time and costs
		K8.the importance of reporting anticipated delays to the relevant person(s) promptly
KB3. the various sources of information available for assessing service and repair requirements of the vehicle including: <ul style="list-style-type: none"> • diagnostic displays • visual inspections • test drives • vehicle/equipment manufacturer specifications • standard operating procedures for diagnosis 	K9.how to find, interpret and use sources of technical information for scheduled maintenance activities, including on-board diagnostic displays	None
	K10.the importance of using the correct sources of technical information	
KA3. identification codes, nomenclature and grades of lubricants, components and aggregates	K11.the purpose of and how to use identification codes	None

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Performance Criteria - Indian NOS	Performance Criteria - UK NOS	Gaps in Indian NOS
<p>KB1. the basic technology used in and functioning of various components and aggregates of the vehicle including:</p> <ul style="list-style-type: none"> • Engines and fuel system (diesel, petrol, electrical, gas, hybrid etc.) *• cooling system • air supply systems • emission and exhaust system • ignition systems • clutch assembly • clutch operating system • gearbox (manual and automatic) • drivelines and hubs • Drive-train assembly and transmission systems (manual, automatic etc.) • steering system • suspension system • brake system (including regenerative braking systems) 	<p>K12.how engines, cooling systems, air supply and exhaust systems, fuel systems and ignition systems operate for the type(s) of vehicle on which you are working (including hybrid vehicles and alternative fuel vehicles)</p>	
	<p>K13.how clutch assemblies, clutch operating systems, manual gear boxes, automatic gear boxes, drivelines and hubs (if appropriate) and final drive assemblies operate for the type of vehicle on which you are working(including hybrid / alternative fuel and electric vehicles)</p>	

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Performance Criteria - Indian NOS	Performance Criteria - UK NOS	Gaps in Indian NOS
<ul style="list-style-type: none"> • tyres and wheels (including wheel alignment) • radiator • batteries and power storage system • power-generating systems (including charging systems especially for electrical and hybrid vehicles) • Electrical wire harness, lighting, ignition, electronic and air-conditioning systems etc. • energy recuperation systems, if applicable (e.g. in electric, gas and hybrid vehicles) • electronic systems including active and passive safety, media and other systems • electronic control unit • hydraulic and pneumatic system • various lubrication systems 		K14.how suspension systems, steering systems, braking systems, non-electrical body systems, wheels and tyres operate for the type of vehicle on which you are working (including regenerative braking systems and other energy recuperation systems used on hybrid / electric and alternative fuel vehicles)
	K15.the purpose, operating principles and location of power storage systems (including batteries), power generating systems,(including vehicle charging systems), starting systems, lighting systems and ancillary equipment for the type of vehicle on which you are working (including hybrid / alternative fuel and electric vehicles)	
KA1. standard operating procedures of the Organisation/ Dealership for inspection and diagnosis of faults in a vehicle as prescribed by the OEM/ Components Manufacturer	K16.the operating specifications and tolerances for the type(s) of vehicles on which you are working (including hybrid / alternative fuel and electric vehicles)	

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Performance Criteria - Indian NOS	Performance Criteria - UK NOS	Gaps in Indian NOS
Core Skills/ Generic Skills		
		K17.the hazards associated with high energy electrical vehicle components
		K18.how to conduct scheduled, routine light vehicle maintenance activities using prescribed examination methods and assessments against vehicle specifications to identify damage, corrosion, inadequate fluid levels, leaks, wear, security problems and general condition and serviceability
		K19.how to check and make adjustments to clearances, gaps, settings, alignment, pressures, tension, speeds and levels relevant to the engine area, transmission area, chassis area, electrical area and body (including to valves, ignition, fuel and emissions, brakes, transmission, lights, tyres, steering and body fittings)
		K20.how to replenish and replace routine service components and materials, including filters, drive, belts, wiper blades, brake linings and pads, lubricants and fluids

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Performance Criteria - Indian NOS	Performance Criteria - UK NOS	Gaps in Indian NOS
Professional Skills		
SB13. analyse, evaluate and apply the information gathered from observation, experience, reasoning, or communication to act efficiently	K21.how to recognise and report cosmetic damage to vehicle components and units outside normal service items	None
KB8. the grade of lubricants, oils, coolants and grease as specified by the OEM for use	K22.how to identify codes and grades of lubricants	None
KB13. precautions to be taken to ensure the following while working (including specific precautions to be taken when working with alternative fuel/ hybrid vehicles): <ul style="list-style-type: none"> • no damage to the electrical / other advanced systems (in case of hybrid/ electrical vehicles) • no damage to the vehicle on which work is being done along with other vehicles parked besides • no damage to vehicle components sub-assemblies and other systems • no contact with hazardous materials 	K23.how to work safely avoiding damage to the vehicle and its systems (including special precautions that may be required when working on hybrid / alternative fuel and electric vehicles)	None
KB8. the grade of lubricants, oils, coolants and grease as specified by the OEM for use	K24.the consequence of using incorrect lubricants, fluids and components	None

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Section III continued: Compares the competencies in Indian NOS with those of UK NOS.

NOS Mapping Descriptions			
Indian QP Title	Auto Service Technician Level 4	UK Qualification	Light vehicle maintenance and repair
Indian QP Code	ASC/ Q 1402	UK Qualification Code	QCF 500/9819/6
Indian NOS Code	ASC/ N1403	UK NOS Code	IMILV01
Indian NOS	Carry out routine service and minor repairs of mechanical & electrical aggregates	UK NOS	Carry out routine light vehicle maintenance
Scope	<ul style="list-style-type: none"> • carry out routine and schedule servicing of various aggregates in a vehicle (including free and paid service) • carry out other maintenance activities in a vehicle which are not a part of schedule maintenance (e.g. oil, lubricant, coolant change and greasing) • carry out minor service and repair in a vehicle (including mechanical and electrical aggregates) 	Overview	This NOS is about conducting routine maintenance, adjustment and replacement activities as part of the periodic servicing of light vehicles.

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Competency Mapping

Performance Criteria - Indian NOS	Performance Criteria - UK NOS	Gaps in Indian NOS
Carry out routine service and minor repairs of mechanical & electrical aggregates	Carry out routine light vehicle maintenance	
PC11. understand the various precautions to be taken to avoid damage to the vehicle and its components while working on other aggregates	P1.use suitable personal protective equipment and vehicle coverings throughout all vehicle maintenance activities	None
PC13. ensure all workshop tools, equipment and workstations are adequately maintained by carrying out scheduled checks, calibration and timely repairs where necessary	P2.prepare the vehicle systems and work area for safe working procedures (where appropriate)	None
PC5. ensure OEM recommended procedure and checklist is followed for routine servicing in case of non-routine service or repair, confirm tasks to be carried out with superior	P3.use suitable sources of technical information to support all your vehicle maintenance activities	None
PC1. understand the auto component manufacturer specifications related to the various components/ aggregates in the vehicle	P4.Adhere to the correct specifications and tolerances for the vehicle when making assessments of system and component performance	None
PC3. conduct test drives to assess need for repairs, calibration or any other adjustments in the electrical/ mechanical aggregates in the vehicle		
PC2. follow standard operating procedures for using workshop tools and equipment for service	P5.Record details accurately and use this adapted specification as the basis for	None

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Performance Criteria - Indian NOS	Performance Criteria - UK NOS	Gaps in Indian NOS
and minor aggregate repairs in the vehicle	your examination and assessment where the customer's vehicle falls outside the manufacturer's original specification	
PC12. record all service and repairs carried out and ensure completeness of tasks assigned before releasing vehicle for the next procedure		
PC5. ensure OEM recommended procedure and checklist is followed for routine servicing in case of non-routine service or repair, confirm tasks to be carried out with superior	P6.examine the vehicle's systems and components following: P6.1 the manufacturer's approved examination methods P6.2 recognised repair methods P6.3 your workplace procedures P6.4 health and safety requirements	None
PC11. understand the various precautions to be taken to avoid damage to the vehicle and its components while working on other aggregates		
PC12. record all service and repairs carried out and ensure completeness of tasks assigned before releasing vehicle for the next procedure		
PC5. ensure OEM recommended procedure and checklist is followed for routine servicing in case of non-routine service or repair, confirm tasks to be carried out with superior	P7.ensure your examination methods identify accurately any vehicle system and component problems falling outside the maintenance schedule specified	None
PC6. calibrate, align and adjust settings, alignment and other routine service and maintenance of various parts and aggregates including: <ul style="list-style-type: none"> • engine and aggregates • other engine sub-assemblies 	P8.carry out adjustments, replacement of vehicle components and replenishment of consumable materials following the manufacturer's current specification for:	None

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Performance Criteria - Indian NOS	Performance Criteria - UK NOS	Gaps in Indian NOS
like turbocharger, radiator etc. <ul style="list-style-type: none"> • gear box and it aggregates • propeller shafts and other transmission systems • clutch and brake systems and sub-assemblies • chassis • electrical and electronic components • steering systems • suspension system • other components (including to valves, ignition, fuel and emissions, transmission, lights, tyres, steering and body fittings) 	P8.1 the particular maintenance interval P8.2 working methods and procedures P8.3 use of equipment P8.4 the tolerances for the vehicle	
PC4. Review the job card and understand work to be carried out PC5. ensure OEM recommended procedure and checklist is followed for routine servicing in case of non-routine service or repair, confirm tasks to be carried out with superior	P9. Record the details accurately and take action which complies with the customer's instructions where system adjustments cannot be made within the manufacturer's specification	None
PC11. understand the various precautions to be taken to avoid damage to the vehicle and its components while working on other aggregates	P10. work in a way which minimises the risk of damage to the vehicle and its systems and the surrounding area	None
PC12. record all service and repairs carried out and ensure completeness of tasks assigned before releasing vehicle for the next procedure	P11. use suitable testing methods to evaluate the performance of all replaced and adjusted components and systems accurately, prior to returning the vehicle to the customer	None

TRANSNATIONAL SKILL STANDARDS FOR AUTOMOTIVE INDUSTRY

Performance Criteria - Indian NOS	Performance Criteria - UK NOS	Gaps in Indian NOS
PC15. ensure any other repair requirements observed in the other components/ aggregates systems (like engine, gear box etc.) while repairing/ overhauling of braking systems are reported to supervisor/ service advisor for further inspection by other specialists	P12.report any problems or issues relating to the vehicle's condition or conformity to the relevant person(s) promptly	None
PC12. record all service and repairs carried out and ensure completeness of tasks assigned before releasing vehicle for the next procedure	P13.ensure your maintenance records are accurate, complete and passed to the relevant person(s) promptly in the format required	None
		P14.complete all vehicle maintenance activities within the agreed timescale
		P15.report any anticipated delays in completion to the relevant person(s) promptly
Knowledge & Understanding; Organisational Context	Knowledge & Understanding; Organisational Context	
KA1. Standard operating procedures for servicing and repair of vehicles as prescribed by the OEM/ dealership KA2. standard schedules and checklists recommended by the OEM/ auto components manufacturer for servicing of vehicles	K1.the manufacturer's and warranty requirements relating to routine maintenance activities for vehicle systems and components	None
		K2.the legal requirements relating to the vehicle maintenance activities for vehicle systems and

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Performance Criteria - Indian NOS	Performance Criteria - UK NOS	Gaps in Indian NOS
		components
KA9. safety, health and environmental policies and regulations for the workplace as well as for automotive trade in general (e.g. safe working practices inside pits/ under vehicles)	K3.the legislation and workplace procedures relevant to: K3.1 health and safety K3.2 the environment (including waste disposal) K3.3 appropriate personal and vehicle protection	None
KA6. safety requirements for equipment and components prescribed by the OEM (e.g. preventing/ dealing with oil spillage and inflammable materials)		
KA5. Standard operating procedures for rectification of errors in information (e.g. rectification of job card, reissue of correct tools and equipment etc.)	K4.your workplace procedures for: K4.1 recording vehicle maintenance work and any variations from the original vehicle specification K4.2 the referral of problems K4.3 reporting delays to the completion of work	None
KA6. Safety requirements for equipment and components prescribed by the OEM (e.g. preventing/ dealing with oil spillage and inflammable materials)		
KA7. documentation requirements for each procedure carried out as part of roles and responsibilities as specified by OEM/ auto component manufacturer		
KA7. documentation requirements for each procedure carried out as part of	K5.the importance of documenting vehicle maintenance information	None

TRANSNATIONAL SKILL STANDARDS FOR AUTOMOTIVE INDUSTRY

Performance Criteria - Indian NOS	Performance Criteria - UK NOS	Gaps in Indian NOS
roles and responsibilities as specified by OEM/ auto component manufacturer		
SB8. ensure timely communication of the additional requirements in a vehicle to the Service Advisor who in turn communicates it to the customer	K6.the importance of working to agreed timescales and keeping others informed of progress	None
		K7.the relationship between time and costs
		K8.the importance of reporting anticipated delays to the relevant person(s) promptly
SB15. Refer complex problems (outside the current scope of work) to a superior in case any additional work requirement comes up	K9.how to find, interpret and use sources of technical information for scheduled maintenance activities, including on-board diagnostic displays	None
KB5. the various sources of information available for assessing service and repair requirements of the vehicle including: <ul style="list-style-type: none"> • diagnostic displays • visual inspections • test drives • vehicle/equipment manufacturer specifications • standard operating procedures 		
SA5. read various sources of information available for assessing service and repair requirements of the vehicle including service manual and diagnostic and visual displays	K10.the importance of using the correct sources of technical information	None

TRANSNATIONAL SKILL STANDARDS FOR AUTOMOTIVE INDUSTRY

Performance Criteria - Indian NOS	Performance Criteria - UK NOS	Gaps in Indian NOS
put up in the workshop		
KA3. identification codes, nomenclature and grades of lubricants, components and aggregates	K11.the purpose of and how to use identification codes	None
KB1. The basic technology used in and functioning of various components and component systems of the vehicle including: <ul style="list-style-type: none"> • engines and fuel system (diesel, petrol, electrical, gas etc.) • Other engine allied aggregates (e.g. radiator, turbocharger etc.) • Emission and exhaust system • clutch assembly • gear box assembly and aggregates (manual, automatic etc.) • Propeller shaft and other allied transmission systems • hydraulic and pneumatic system • brake system • drive-train assembly • steering system • suspension system • tyres and wheel alignment • cooling system • electrical, ignition, electronic and air-conditioning system etc. 	K12.how engines, cooling systems, air supply and exhaust systems, fuel systems and ignition systems operate for the type(s) of vehicle on which you are working (including hybrid vehicles and alternative fuel vehicles)	

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Performance Criteria - Indian NOS	Performance Criteria - UK NOS	Gaps in Indian NOS
		K13.how clutch assemblies, clutch operating systems, manual gear boxes, automatic gear boxes, drivelines and hubs (if appropriate) and final drive assemblies operate for the type of vehicle on which you are working (including hybrid / alternative fuel and electric vehicles)
		K14.how suspension systems, steering systems, braking systems, non-electrical body systems, wheels and tyres operate for the type of vehicle on which you are *working (including regenerative braking systems and other energy recuperation systems used on hybrid / electric and alternative fuel vehicles)
		K15.the purpose, operating principles and location of power storage systems (including batteries), power generating systems,(including vehicle charging systems), starting systems, lighting systems and ancillary equipment for the type of vehicle on which you are working(including hybrid / alternative fuel and electric vehicles)

TRANSNATIONAL SKILL STANDARDS FOR AUTOMOTIVE INDUSTRY

Performance Criteria - Indian NOS	Performance Criteria - UK NOS	Gaps in Indian NOS
<p>KB4. how to carry out routine maintenance including:</p> <ul style="list-style-type: none"> • checking vehicle condition against OEM specifications to identify damage, corrosion, wear and tear, fluid levels, leaks and other problems in serviceability • make adjustments to settings, alignment, pressures, tension, speeds and levels relevant to: <ul style="list-style-type: none"> - engine and aggregates (including fuel injection pump, ignition, intake and exhaust systems) - steering system - clutch and brake assembly - transmission system (including gearbox, differential, propeller shaft and axles) - electrical and electronic components (including alternator, wiper motor, lights, wire harness etc.) - other components (including tyres and body fittings) 	<p>K16.the operating specifications and tolerances for the type(s) of vehicles on which you are working (including hybrid / alternative fuel and electric vehicles)</p>	
	<p>K17.how to conduct scheduled, routine light vehicle maintenance activities using prescribed examination methods and assessments against vehicle specifications to identify damage, corrosion, inadequate fluid levels, leaks, wear, security problems and general condition and serviceability</p>	None
	<p>K18.how to check and make adjustments to clearances, gaps, settings, alignment, pressures, tension, speeds and levels relevant to the engine area, transmission area, chassis area, electrical area and body (including to valves, ignition, fuel and emissions, brakes, transmission, lights, tyres, steering and body fittings)</p>	
<p>KB13. precautions to be taken to ensure the following while working (including specific precautions to be taken when working with alternative fuel/ hybrid vehicles):</p> <ul style="list-style-type: none"> • no damage to the electrical / other advanced systems (in case of hybrid/ electrical 	<p>K19.the hazards associated with high energy electrical vehicle components</p>	None

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Performance Criteria - Indian NOS	Performance Criteria - UK NOS	Gaps in Indian NOS
vehicles) <ul style="list-style-type: none"> • no damage to the vehicle on which work is being done along with other vehicles parked besides • no damage to vehicle components sub-assemblies and other systems • no contact with hazardous materials 		
KB7. The type and quality of components specified by the OEM for use as replacement parts	K20.how to replenish and replace routine service components and materials, including filters, drive, belts, wiper blades, brake linings and pads, lubricants and fluids	None
KB8. The grade of lubricants, oils, coolants and grease as specified by the OEM for use		
KB11. faults and failures that necessitate replacement of components/ aggregates (including mechanical & electrical assemblies) and other units		
KB5. The various sources of information available for assessing service and repair requirements of the vehicle including: <ul style="list-style-type: none"> • diagnostic displays • visual inspections • test drives • vehicle/equipment manufacturer specifications • standard operating procedures 	K21.how to recognise and report cosmetic damage to vehicle components and units outside normal service items	None

TRANSNATIONAL SKILL STANDARDS FOR AUTOMOTIVE INDUSTRY

Performance Criteria - Indian NOS	Performance Criteria - UK NOS	Gaps in Indian NOS
SB13. gather information while working on an aggregate/ components and take appropriate action, by consulting superiors		
KB8. the grade of lubricants, oils, coolants and grease as specified by the OEM for use	K22.how to identify codes and grades of lubricants	None
	K23.the consequence of using incorrect lubricants, fluids and components	
KB13. precautions to be taken to ensure the following while working (including specific precautions to be taken when working with alternative fuel/ hybrid vehicles): <ul style="list-style-type: none"> • no damage to the electrical / other advanced systems (in case of hybrid/ electrical vehicles) • no damage to the vehicle on which work is being done along with other vehicles parked besides • no damage to vehicle components sub-assemblies and other systems • no contact with hazardous materials 	K24.how to work safely avoiding damage to the vehicle and its systems (including special precautions that may be required when working on hybrid / alternative fuel and electric vehicles)	None

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Section IV continued: Compares the competencies in Indian NOS with those of UK NOS.

NOS Mapping Descriptions			
Indian QP Title	Auto Service Technician Level 4	UK Qualification	Not Available
Indian QP Code	ASC/ Q 1411	UK Qualification Code	Not Available
Indian NOS Code	ASC/ N0001	UK NOS Code	Not Available
*Indian NOS	Plan and organise work to meet expected outcomes	UK NOS	Not Available
Scope	Interact & communicate effectively with colleagues including member in the own group as well as other groups	Overview	Not Available

TRANSNATIONAL SKILL STANDARDS FOR AUTOMOTIVE INDUSTRY

Section V continued: Compares the competencies in Indian NOS with those of UK NOS.

NOS Mapping Descriptions			
Indian QP Title	Auto Service Technician Level 4	UK Qualification	Light vehicle maintenance and Motor Repair
Indian QP Code	ASC/ Q 1402	UK Qualification Code	QCF 500/9819/6
Indian NOS Code	ASC/ N0002	UK NOS Code	IMICA03
Indian NOS	Work effectively in a team	UK NOS	Maintain Working Relationships in the Motor Vehicle Environment
Scope	Resources (both material & manpower) needed to maintain a safe working environment as per the prevalent norms & government policies including emergency procedures for illness, accidents, fires or any other reason which may involve evacuation of the premises	Overview	This NOS is about maintaining good working relationships with all colleagues.

TRANSNATIONAL SKILL STANDARDS FOR AUTOMOTIVE INDUSTRY

Competency Mapping

Performance Criteria - Indian NOS	Performance Criteria - UK NOS	Gaps in Indian NOS
Work effectively in a team	Maintain Working Relationships in the Motor Vehicle Environment	
PC2. work with colleagues to integrate work	P1.contribute to team working by initiating ideas and co-operating with colleagues	None
PC6. let colleagues know in good time if cannot carry out commitments, explaining the reasons	P2.respond promptly and willingly to requests for assistance from colleagues which fall within the limits of your own job responsibilities and capabilities	None
PC7. identify problems in working with colleagues and take the initiative to solve these problems	P3.refer colleagues to the relevant person(s) where requests fall outside your responsibility and capability	None
PC3. pass on information to colleagues in line with organisational requirements both through verbal as well as non-verbal means	P4.give colleagues sufficient, accurate information and support to meet their work needs	None
PC1. maintain clear communication with colleagues (by all means including face-to-face, telephonic as well as written)	P5.make requests for assistance to colleagues clearly and courteously	None
PC1. maintain clear communication with colleagues (by all means including face-to-face, telephonic as well as written)	P6.use methods of communication which meet the needs of colleagues	None

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Performance Criteria - Indian NOS	Performance Criteria - UK NOS	Gaps in Indian NOS
PC4. work in ways that show respect for colleagues	P7.treat colleagues in a way which shows respect for their views and opinions and promotes goodwill	None
PC5. carry out commitments made to colleagues	P8.make and keep achievable commitments to colleagues	None
PC6. let colleagues know in good time if cannot carry out commitments, explaining the reasons	P9.inform colleagues promptly of any problems or information likely to affect their own work	None
Knowledge & Understanding; Organisational Context		
KA1. the organisation's policies and procedures for working with colleagues, role and responsibilities in relation to this	K1.your own and your colleague's job role and limits of responsibility for giving advice and support	None
KA5. the implications of own work on the work and schedule of others		
KA5. the implications of own work on the work and schedule of others	K2.the operational constraints which may affect interaction with colleagues	None
KA1. the organisation's policies and procedures for working with colleagues, role and responsibilities in relation to this	K3.lines of communication within your workplace	None
KA3. different methods of communication and the circumstances in which it is appropriate to use these	K4.how to use suitable and effective communication skills when responding to and interacting with others	None
KB1. different types of information that colleagues	K5.how to adapt communication methods to	None

TRANSNATIONAL SKILL STANDARDS FOR AUTOMOTIVE INDUSTRY

Performance Criteria - Indian NOS	Performance Criteria - UK NOS	Gaps in Indian NOS
might need and the importance of providing this information when it is required	satisfy the needs of colleagues	
KA3. different methods of communication and the circumstances in which it is appropriate to use these	K6.how to report problems using appropriate methods of communication	None
KA2. the importance of effective communication and establishing good working relationships with colleagues	K7.the importance of developing positive working relationships with colleagues – the effect on morale, productivity, and company image	None
KA4. the importance of creating an environment of trust and mutual respect	K8.the importance of acknowledging other peoples' views and opinions	None
KB2. the importance of helping colleagues with problems, in order to meet quality and time standards as a team	K9.the importance of making and honouring realistic commitments to colleagues	None
KA2. the importance of effective communication and establishing good working relationships with colleagues	K10.the implications of inappropriate communication	None
KA5. the implications of own work on the work and schedule of others		
KB2. the importance of helping colleagues with problems, in order to meet quality and time standards as a team		

TRANSNATIONAL SKILL STANDARDS FOR AUTOMOTIVE INDUSTRY

Section VI continued: Compares the competencies in Indian NOS with those of UK NOS.

NOS Mapping Descriptions			
Indian QP Title	Auto Service Technician Level 4	UK Qualification	Light vehicle Maintenance and Repair
Indian QP Code	ASC/ Q 1402	UK Qualification Code	QCF 500/9819/6
Indian NOS Code	ASC/ N0003	UK NOS Code	IMICA02
Indian NOS	Maintain a healthy, safe and secure working environment	UK NOS	Reduce Risk(s) to Health and Safety in the Motor Vehicle Environment
Scope	This unit/task covers the following: Colleagues: · Interact & communicate effectively with colleagues including member in the own group as well as other groups	Overview	This NOS covers the basic, legally required health and safety duties of everyone in the workplace. This NOS does not require a full Risk Assessment to be undertaken. This NOS is about identifying hazards and evaluating risk(s) in the workplace as well as reducing the risk(s) to health and safety in the workplace. This NOS is about having an appreciation of identifiable risk(s) in the workplace and knowing how to identify them and deal

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Scope		Overview	<p>with them. It describes the competence required to ensure that:</p> <ul style="list-style-type: none"> • actions or lack of action do not create any health and safety risk(s) • identifiable risk(s) in the workplace are not ignored <p>sensible action is taken to put things right, including reporting situations which pose an identifiable risk(s) to people in the workplace, and seeking advice from others</p>
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Competency Mapping

Performance Criteria - Indian NOS	Performance Criteria - UK NOS	Gaps in Indian NOS
Maintain a healthy, safe and secure working environment	Reduce Risk(s) to Health and Safety in the Motor Vehicle Environment	
PC1. comply with organisation's current health, safety and security policies and procedures	P1. carry out your working practices in accordance with relevant legislative requirements	None
PC1. comply with organisation's current health, safety and security policies and procedures	P2. Identify the correct personal and vehicle protective equipment required to correctly carry out your workplace practices	None
PC1. comply with organisation's current health, safety and	P3. carry out your workplace practices and workplace	None

TRANSNATIONAL SKILL STANDARDS FOR AUTOMOTIVE INDUSTRY

Performance Criteria - Indian NOS	Performance Criteria - UK NOS	Gaps in Indian NOS
security policies and procedures	policies using the correct personal protective equipment	
PC4. identify and correct any hazards like illness, accidents, fires or any other natural calamity safely and within the limits of individual's authority	P4.Rectify health and safety risk(s) that are within your capability and scope of your job responsibilities	None
PC7. identify and recommend opportunities for improving health, safety, and security to the designated person		
PC5. report any hazards outside the individual's authority to the relevant person in line with organisational procedures and warn other people who may be affected	P5.pass on any suggestions for reducing risk(s) to health and safety within your job role to the responsible persons	None
PC1. comply with organisation's current health, safety and security policies and procedures	P6.ensure your personal conduct in the workplace does not endanger the health and safety of yourself or other persons	None
	P7.ensure your personal presentation at work ensures the health and safety of yourself and others, meets any relevant legislative duties and is in accordance with workplace policies	
PC2. report any identified breaches in health, safety, and security policies and procedures to the designated person	P8.follow the workplace policies and suppliers' or manufacturers' instructions for the safe use of equipment, materials and products and report any differences identified	None

TRANSNATIONAL SKILL STANDARDS FOR AUTOMOTIVE INDUSTRY

Performance Criteria - Indian NOS	Performance Criteria - UK NOS	Gaps in Indian NOS
Knowledge & Understanding; Organisational Context		
KA1. legislative requirements and organisation's procedures for health, safety and security and individual's role and responsibilities in relation to this	K1.the current health and safety legislation, regulations and workplace policies that govern your working practices	None
	K2.your duties and responsibilities for current health and safety as defined by any specific legislation covering your job role and where to access the information	
	K3.agreed workplace policies relating to controlling risk(s) to health and safety the responsible person(s) to whom you report health and safety concerns	
KA2. what is meant by a hazard, including the different types of health and safety hazards that can be found in the workplace	K4.what hazards may exist in your workplace	None
KB1. different types of breaches in health, safety and security and how and when to report these	K5.health and safety risk(s) which may be present in your own job role and the precautions you must take	None
KA3. how and when to report hazards	K6.the importance of remaining alert to the presence of hazards in the whole workplace	None
	K7.how to deal with and report risk(s)	

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Performance Criteria - Indian NOS	Performance Criteria - UK NOS	Gaps in Indian NOS
KA5. the organisation's emergency procedures for different emergency situations and the importance of following these	K8.the requirements and guidance on the precautions	None
KA1. legislative requirements and organisation's procedures for health, safety and security and individual's role and responsibilities in relation to this	K9.the specific workplace policies including safe working practices covering your job role	None
KA1. legislative requirements and organisation's procedures for health, safety and security and individual's role and responsibilities in relation to this	K10.suppliers' and manufacturers' instructions for the safe use of equipment, materials and products	None
	K11.the importance of personal presentation in maintaining health and safety in the workplace	
KA6. the importance of maintaining high standards of health, safety and security	K12.the importance of personal conduct in maintaining the health and safety of yourself and others	None
KA7. implications that any non-compliance with health, safety and security may have on individuals and the organisation		
KA1. legislative requirements and organisation's procedures for health, safety and security and individual's role and responsibilities in relation to this	K13.the importance of personal protective equipment, when and where it should be used and the importance of maintaining it correctly	None
KA4. the limits of responsibility for dealing with hazards	K14.your scope and responsibility for rectifying risk(s)	None