







AUTOMOTIVE MECHATRONICS



ASSESSMENT PACKAGE

National Vocational Certificate Level 3

Version 1 - November, 2019





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Document Version November, 2019 **Islamabad, Pakistan**

AUTOMOTIVE MECHATRONICS



ASSESSMENT PACKAGE
National Vocational Certificate Level 3

Version 1 - November, 2019

Candida Details		Name:									
Assess Outcom		COMPETENT NOT YET COMPETENT Name of the Assessor: Assessor's code:									
 .		Assessme	ent Su	mma	rv (t	to be	filled k	ov the a	assess	or)	
<u> </u>	Activ					ethod		//		Res	sult
Nature of Activity			Written	Oral	;	Observation	Portfolio	Role Play		Competent	Not Yet Competent
Practica	al Skill Den	monstration				✓		√			
Knowle	edge Asses	sment	✓	✓							
Other F	Requiremer	nt					✓				
Each A	ssessment	t Task (with perfo	rmance	e crite	eria)						
Assess	sment Task	.1			Mai					ask 1 nission as p	per given
During followin		cal assessment, ca	andida	te der	nons	strate	ed the	Yes	No	Remarks	
1		ince Criteria 1: Ap quirements during					and				
2		ince Criteria 2: Se nt according to job									
3	Performa	ınce Criteria 3: Re	∍placed	J Torq	ue c	conve	erter				
4	Performa	ince Criteria 4: Te	ested ve	ehicle	spe	ed se	ensor				
5	Performance Criteria 5: Replaced transmission strainer				sion f	fluid					
6	Performar seals	ınce Criteria 6: Ch	nanged	trans	miss	sion c	lic				
7	Performar completio	ince Criteria 7: En on of task	sured	house	kee	ping	after				
Compe	tent 🗆				Not	t Yet (Compet	tent \square			

Assess	sment Task 2	Description of assessment task 2 Maintain Electronically Controlled Transmission (ECT) as per given instruction			
During followir	the practical assessment, candidate de	monstrated the	Yes	No	Remarks
1	Performance criteria 1: Applied releval safety requirements during completion				
2	Performance Criteria 2: Selected tools equipment according to job requireme				
3	Performance criteria 3: Tested ECT fluusing pressure tester	uid pressure			
4	Performance Criteria 4: Replaced inpushaft sensor	it and output			
5	Performance Criteria 5: Connected OBD-II Scanner and replace faulty parts				
6	Performance Criteria 6: Ensured hous completion of task	ekeeping after			
Compe	etent	Not Yet Compe	tent 🗆		
Portfoli	io (if any)	Description of portfolio			
Curren	t ☐ Sufficient ☐ Authenti	c □ Valid			Reliable
Portfolio meet the following performance standards:			Yes	No	Remarks
1	Performance criteria 1 for the evaluation of portfolio: Submit note book or practical activity journal, completed during this specific module, for relevant activity with drawing/illustration.				
Compe	etent 🗆	Not Yet Compe	etent \Box]	

Title of Qualification:	CS Code:	Level: 3	Version:
Automotive Mechatronics			
Competency Standard Title:	Assessment D	oate (DD/MM/YY	´):
Composition of Charles and Third	710000011101111	(,
Conserve Power Transmission - I	7.00000	(==,	,
	7.0000	(======================================	,

Candidate Details	Name: Candidate Signature:	3
Written Assessment Outcome	COMPETENT Name of the Assessor: Signature of the Assessor:	NOT YET COMPETENT Assessor's code:

Title of Qualification: Automotive Mechatronics	CS Code:	Level: 3	Version:
Competency Standard Title: Conserve Power Transmission - I	Assessmen	t Date (DD/MI	 M/YY):

Question	Candidate's answer
Enlist different types of clutches used in automatic transmission	
Enlist main components of torque convertor	
How do you check oil pressure in automatic transmission	
Enlist different types of sensors in ECT (Electronically Controlled Transmission)	
Explain purpose of Oil Cooler in automatic transmission	

Title of Qualification: Automotive Mechatronics	CS Code: 071400956	Level: 3	Version:
Competency Standard Title: Maintain Controlled Brake System	Assessment D	Oate (DD/MM/YY	·):

Candidate Details	Name:							
	Registration/Roll Number:							
	To meet this standard, you are required to complete the following within the given time frame (for practical demonstration & assessment):							
	5. Assessment Task 1: Maintain Antilock Brake System (ABS) as per specific							
Guidance for	criteria 6. Assessment Task 2: Replace ABS Components as per specific criteria							
Candidate								
	And complete:							
	7. Knowledge assessment test (Written or Oral)8. Portfolios at the time of assessment (if any)							
	During a practical assessment, under observation by an assessor, you will complete:							
	Assessment Task 1							
	Performance Criteria 1: Apply relevant health and safety requirements during completion of task							
	Performance Criteria 2: Select tools and equipment as per job requirement							
	Performance Criteria 3: Connect OBD-II scanner to check faults in ABS							
	Performance Criteria 4: Check wiring harness and connectors of ABS system							
	Performance Criteria 5: Test wheel speed sensor using multimeter							
	Performance Criteria 6: Ensure housekeeping after completion of task							
	Assessment Task 2							
	Performance Criteria 1: Apply relevant health and safety requirements during completion of task							
	Performance Criteria 2: Select tools and equipment as per job requirement							
	Performance Criteria 3: Check brake fluid inlet and outlet lines							
	Performance Criteria 4: Check return motor connection							
	Performance Criteria 5: Clean and refit the connectors							
	Performance Criteria 6: Ensure housekeeping after completion of task							
	Portfolios required at the time of assessment (if any) for							
	Performance criteria 1 for the evaluation of portfolio: Submit note book or practical activity journal, completed during this specific module, for relevant activity with drawing/illustration.							

Continued on following page

Candid Details		Name:								
Assess Outcom		COMPETENT Name of the Assessor: Signature of the Assessor:				Asses	ssor's c			
		Assessm	ent Su	mma			by the a	assess		
	Activ	ity		1	Metho	d	T		Res	sult
Nature of Activity			Written	Oral	Observation	Portfolio	Role Play	Competent		Not Yet Competent
Practica	al Skill Den	nonstration			✓		√			
Knowle	edge Asses	sment	✓	✓						
Other F	Requiremer	nt				✓				
Each A	ssessment	t Task (with perfo	rmance	e crite	eria)					
Assess	ment Task	1			Mainta	Description of assessment task 1 Maintain Antilock Brake System (ABS) as per given instruction				
During followin		al assessment, c	andidat	te der	nonstrat	ed the	Yes	No	Remarks	
1		nce Criteria 1: Ap quirements during				and				
2		nce Criteria 2: Se nt according to jol								
3	Performance Criteria 3: Connected OBD-II scanner to check faults in ABS				nner]		
4	Performance Criteria 4: Checked wiring connectors of ABS system				g harnes	s and				
5	Performance Criteria 5: Tested wheel s using multimeter				speed se	ensor				
6	Performal completio	nce Criteria 6: Er n of task	sured	house	ekeeping	j after				
Compe	tent 🗆				Not Yet	Compe	tent 🗆			

Assess	sment Task 2	Description of assessment task 2 Replace ABS Components as per given instruction			
During followin	the practical assessment, candidate der	monstrated the	Yes	No	Remarks
1	Performance criteria 1: Applied relevar safety requirements during completion				
2	Performance Criteria 2: Selected tools equipment according to job requirement				1
3	Performance criteria 3: Checked brake outlet lines	fluid inlet and			1
4	Performance Criteria 4: Checked return connection	n motor			
5	Performance Criteria 5: Cleaned and refit the connectors				
6	Performance Criteria 6: Ensured house completion of task	ekeeping after			
Compe	etent 🗆	Not Yet Compe	etent 🗆		
Portfoli	io (if any)	Description of portfolio			
Curren	nt □ Sufficient □ Authention	ic □ Valid			Reliable
Portfoli	io meet the following performance stand	lards:	Yes	No	Remarks
1	Performance criteria 1 for the evaluation of portfolio: Submit note book or practical activity journal, completed during this specific module, for relevant activity with drawing/illustration.				
Compe	etent 🗆	Not Yet Compe	etent C	1	

Title of Qualification:	CS Code:	Level: 3	Version:
Automotive Mechatronics			
Competency Standard Title:	Assessment D	Date (DD/MM/YY) :
Maintain Controlled Brake System			

Candidate Details	Name: Candidate Signature:	. Registration/Roll Number:
Written Assessment Outcome	COMPETENT Name of the Assessor: Signature of the Assessor:	NOT YET COMPETENT . Assessor's code:

Title of Qualification: Automotive Mechatronics	CS Code:	Level: 3	Version:
Competency Standard Title: Maintain Controlled Brake System	Assessmen	t Date (DD/MI	M/YY):

Question	Candidate's answer
6. ABS stands for?	
7. What are the main components of ABS system?	
8. What is the main function of ABS Pressure modulator?	
9. What is the main function of ABS Return motor?	
10. Why do we have four wheel sensors instead of one?	

Title of Qualification: Automotive Mechatronics	CS Code: 071400954	Level: 3	Version:
Competency Standard Title: Maintain Fuel Control System-I	Assessment D	Oate (DD/MM/YY):

Candidate Details	Name:
	Registration/Roll Number:
	To meet this standard, you are required to complete the following within the given time frame (for practical demonstration & assessment):
Guidance for Candidate	 Assessment Task 1: Maintain EFI system as per specified criteria Assessment Task 2: Maintain common rail diesel injection system as per specified criteria
	And complete:
	11. Knowledge assessment test (Written or Oral)12. Portfolios at the time of assessment (if any)
	During a practical assessment, under observation by an assessor, you will complete:
	Assessment Task 1
	Performance Criteria 1: Apply relevant health and safety requirements during completion of task
	Performance Criteria 2: Select tools and equipment as per job requirement
	Performance Criteria 3: Perform scanning of Electronic Control Unit (ECU)
	Performance Criteria 4: Test Mass Air Flow (MAF) sensor using multimeter
	Performance Criteria 5: Test throttle Valve position sensor
	Performance Criteria 6: Check Engine coolant temperature (ECT) sensor
	Performance Criteria 7: Ensure housekeeping after completion of task
	Assessment Task 2
	Performance Criteria 1: Apply relevant health and safety requirements during completion of task
	Performance Criteria 2: Select tools and equipment as per job requirement
	Performance Criteria 3: Service Diesel injectors
	Performance Criteria 4: Check Fuel pressure at fuel rail inlet ad outlet
	Performance Criteria 5: Ensure housekeeping after completion of task

Continued on following page

Candid Details	ate	Name:									
Assess Outcon		COMPETENT Name of the Assessor: Signature of the Assessor:				. Asses	sor's c				
		Accocom	ont Su	mma		/to bo	filled k	w tha		Or)	
	Activ	Assessm	ent Su	IIIIIIa		/lethod		y ine a	155655	Res	erilt
Nature	of Activity	,	Written	Oral		Observation	Portfolio	Role Play		Competent	Not Yet Competent
Practic	al Skill Den	nonstration				√		✓			20
Knowle	dge Asses	sment	✓	✓							
Other F	Requiremer	nt					✓				
Each A	ssessment	t Task (with perfo	rmance	e crite	eria	a)					
Assess	ment Task	1				•		assessi y stem :		sk 1 given instru	ction
During the practical assessment, candidate demonstrated the following: No Remarks											
1	Performance Criteria 1: Applied relevant health and safety requirements during completion of task										
Performance Criteria 2: Selected tools and equipment according to job requirement											
Performance Criteria 3: Performed scanning of Electronic Control Unit (ECU)			ing of								
Performance Criteria 4: Tested Mass Air Flow sensor using multimeter			Flow (I	MAF)							
Performance Criteria 5: Tested throttle Valve position sensor			sition								
Performance Criteria 6: Checked Engine coolant temperature (ECT) sensor											
7	Performa completio	nce Criteria 7: Er on of task	nsured	hous	eke	eping	after				
Compe	tent 🗆				N	ot Yet	Compe	tent \square			

Assessment Task 2 Description of assessment task 2 Maintain Common Rail Diesel Injection Sper given instruction					
During following	the practical assessment, candidate de	monstrated the	Yes	No	Remarks
1	Performance criteria 1: Applied releval safety requirements during completion				
2	Performance Criteria 2: Selected tools equipment according to job requireme				
3	Performance criteria 3: Serviced Diese	el injectors			
4	Performance Criteria 4: Checked Fuel pressure at fuel rail inlet ad outlet				
5	Performance Criteria 5: Ensured housekeeping after completion of task				
Competent ☐ Not Yet 0			tent \square		
Portfoli	o (if any)	Description of	portfolio)	
Current ☐ Sufficient ☐ Authentic ☐ Valid					Reliable
Portfolio meet the following performance standards:			Yes	No	Remarks
Performance criteria 1 for the evaluation of portfolio: Submit note book or practical activity journal, completed during this specific module, for relevant activity with drawing/illustration.					
Compe	etent	Not Yet Compe	etent \square]	

Title of Qualification: Automotive Mechatronics	CS Code:	Level: 3	Version:
Competency Standard Title: Maintain Fuel Control System-I	Assessment D	Date (DD/MM/YY):

Candidate Details	Name: Candidate Signature:	. Registration/Roll Number:
Written Assessment Outcome	COMPETENT Name of the Assessor: Signature of the Assessor:	NOT YET COMPETENT . Assessor's code:

Title of Qualification: Automotive Mechatronics	CS Code:	Level: 3	Version:
Competency Standard Title: Maintain Fuel Control System-I	Assessmen	t Date (DD/MI	M/YY):

Question	Candidate's answer
11. What are the advantages of EFI System?	
12. What are different types of EFI sensor?	
13. Name different types of EFI actuators?	
14. What MAF Stands for?	
15. What CMP stands for?	
16. What is the main purpose of a fuel pump in a gasoline fuel system?	

Title of Qualification: Automotive Mechatronics	CS Code: 071400953	Level: 3	Version:
Competency Standard Title: Maintain Ignition System	Assessment D	Pate (DD/MM/YY):

Candidate Details	Name:
	Registration/Roll Number:
	To meet this standard, you are required to complete the following within the given time frame (for practical demonstration & assessment):
Guidance for	13. Assessment Task 1: Maintain Contact Breaker Ignition System14. Assessment Task 2: Maintain Coil on Plug (COP) system
Candidate	And complete:
	15. Knowledge assessment test (Written or Oral)16. Portfolios at the time of assessment (if any)
	During a practical assessment, under observation by an assessor, you will complete:
	Assessment Task 1
	Performance Criteria 1: Apply relevant health and safety requirements during completion of task
	Performance Criteria 2: Select tools and equipment as per given task
	Performance Criteria 3: Check Electrolyte gravity and battery voltage
	Performance Criteria 4: Check ignition coil using Multimeter
	Performance Criteria 5: Replace Contact Breaker point
	Performance Criteria 6: Adjust firing order
	Performance Criteria 7: Replace Spark plugs along condenser
	Performance Criteria 8: Ensure housekeeping after completion of task
	Assessment Task 2
	Performance Criteria 1: Apply relevant health and safety requirements during completion of task
	Performance Criteria 2: Select tools and equipment as per given task
	Performance Criteria 3: Check Ignition coil resistance using multimeter
	Performance Criteria 4: Connect OBD-II scanner for scanning and note down the fault
	Performance Criteria 5: Rectify the faults
	Performance Criteria 6: Ensure housekeeping after completion of task
	Portfolios required at the time of assessment (if any) for
	Performance criteria 1 for the evaluation of portfolio: Submit note book or practical activity journal, completed during this specific module, for relevant activity with drawing/illustration.

Continued on following page

Candida Details	ate	Name: Registration/Roll Number: Candidate Signature:									
Assess Outcom		COMPETENT Name of the Assessor: Signature of the Assessor:						. Asses	sor's c		
		A				// a la a	£:11 a al 1	41		1	
	Activ	Assessm	ent Su	mma		(to be lethod		by the a	assess	or) Res	
Activity Nature of Activity		Written	Oral		Observation	Portfolio	Role Play	Competent		Not Yet Competent	
Practica	al Skill Den	nonstration				√		✓			
Knowle	dge Asses	sment	✓	✓							
Other R	Requiremer	nt					✓				
Each A	ssessment	Task (with perfo	rmance	e crite	eria	ι)					
Assess	ment Task	1			N	1aintair				sk 1 nition Sys	tem as per
During followin		al assessment, c	andida	te de	mo	nstrate	ed the	Yes	No	Remarks	
1		nce Criteria 1: Ap quirements during					and				
2		nce Criteria 2: Se at according to job				ıd					
3	Performance Criteria 3: Checked Electrolyte gravity and battery voltage					vity					
4	Performance Criteria 4: Replaced Conta				tac	t Breal	ker				
5 Performance Criteria 6: Adjusted firing order											
6 Performance Criteria 7: Replaced Spark proceeds and condenser				olugs a	long						
7	Performal completio	nce Criteria 8: Er n of task	sured	hous	eke	eping	after				
Compe	tent 🗆				Not Yet Competent □						

Assess	ment Task 2	Description of assessment task 2 Maintain Coil on Plug (COP) system as per given instruction				
During the practical assessment, candidate demonstrated the following:			Yes	No	Remarks	
1	Performance criteria 1: Applied relevant health and safety requirements during completion of task					
2	Performance Criteria 2: Selected tools and equipment according to job requirement					
3	Performance criteria 3: Check Ignition coil resistance using multimeter					
4	Performance Criteria 4: Connect OBD-II scanner for scanning and note down the fault					
5	Performance Criteria 5: Rectify the faults					
Performance Criteria 6: Ensured housekeeping after completion of task						
Compe	etent 🗆	Not Yet Compe	tent 🗆			

Portfolio (if any)				Description of portfolio				
Current ☐ Sufficient ☐ Authentic				c □ Valid □ Reliable □				Reliable
Portfolio meet the following performance standards:					Yes	No	Remarks	
Performance criteria 1 for the evaluation of portfolio: Submit note book or practical activity journal, completed during this specific module, for relevant activity with drawing/illustration.								
Competent □			Not Yet Competent □					

Title of Qualification: Automotive Mechatronics	CS Code:	Level: 3	Version:
Competency Standard Title: Maintain Ignition System	Assessment D	Pate (DD/MM/YY):

Candidate Details	Name: Candidate Signature:	Registration/Roll Number:
Written Assessment Outcome	COMPETENT Name of the Assessor: Signature of the Assessor:	NOT YET COMPETENT Assessor's code:

Title of Qualification: Automotive Mechatronics	CS Code:	Level: 3	Version:
Competency Standard Title: Maintain Ignition System	Assessmen	t Date (DD/MI	W/YY):

Question	Candidate's answer
17. Name different types of Spark Ignition Systems?	
18. What are the two windings used in ignition coil?	
What is the point gap in Contact Breaker Ignition System	
What is the range of high voltage in ignition system?	
Name main components of ignition system?	

Title of Qualification: Automotive Mechatronics	CS Code: 071400952	Level: 3	Version:		
Competency Standard Title: Perform Engine Tuning	Assessment Date (DD/MM/YY):				

Candidate Details	Name:							
	Registration/Roll Number:							
	To meet this standard, you are required to complete the following within the given time frame (for practical demonstration & assessment):							
0 11	17. Assessment Task 1: Adjust Engine Idle Speed Air Fuel Ratio as per specific criteria							
Guidance for Candidate	 18. Assessment Task 2: Adjust Air Fuel Ratio as per given instruction 19. Assessment Task 3: Adjust Tappet Clearance as per specific criteria 20. Assessment Task 4: Clean/Adjust/Replace Spark Plugs 							
	And complete:							
	21. Knowledge assessment test (Written or Oral)22. Portfolios at the time of assessment (if any)							
	During a practical assessment, under observation by an assessor, you will complete:							
	Assessment Task 1							
	Performance Criteria 1: Apply relevant health and safety requirements during completion of task							
	Performance Criteria 2: Select tools and equipment as per job requirement							
	Performance Criteria 3: Adjust engine idle speed by adjusting throttle valve adjusting screw							
	Performance Criteria 4: Ensure housekeeping after completion of task							
	Assessment Task 2							
	Performance Criteria 1: Apply relevant health and safety requirements during completion of task							
	Performance Criteria 2: Select tools and equipment as per job requirement							
	Performance Criteria 3: Find the adjustment screws on the carburettor							
	Performance Criteria 4: Start the engine and warm-up to normal operating temperature							
	Performance Criteria 5: Adjust screw to find the right mixture							
	Performance Criteria 6: Ensure housekeeping after completion of task							

Assessment Task 3

Performance Criteria 1: Apply relevant health and safety requirements during completion of task

Performance Criteria 2: Select tools and equipment as per job requirement

Performance Criteria 3: Remove tappet cover and related parts

Performance Criteria 4: Turn the crankshaft to close the intake and exhaust valves

Performance Criteria 5: Use feeler gauge to adjust tappet clearance as per workshop manual

Performance Criteria 6: Refit all parts with defined procedure

Performance Criteria 7: Ensure housekeeping after completion of task

Assessment Task 4

Performance Criteria 1: Apply relevant health and safety requirements during completion of task

Performance Criteria 2: Select tools and equipment as per job requirement

Performance Criteria 3: Disconnect and clean spark plug wire

Performance Criteria 4: Remove and clean spark plugs

Performance Criteria 5: Adjust plug gaps as per standard if required

Performance Criteria 6: Replace spark plugs with new ones.

Performance Criteria 7: Ensure housekeeping after completion of task

Portfolios required at the time of assessment (if any) for

Performance criteria 1 for the evaluation of portfolio: Submit note book or practical activity journal, completed during this specific module, for relevant activity with drawing/illustration.

Continued on following page

Candid Details	ate	Name:									
Assess Outcon		Signature of the			NOT YET COMPETENT Assessor's code:						
		Assessm	ent Su	mma	rv	(to be	filled b	ov the a	assess	 or)	
	Activ		<u> </u>			Method		.,		Res	sult
Nature of Activity		Written	Oral		Observation	Portfolio	Role Play		Competent	Not Yet Competent	
Practic	al Skill Den	nonstration		Ĭ		√	_	√			<u></u>
Knowle	dge Asses	sment	✓	✓							
Other F	Requiremer	nt					✓				
Each A	ssessment	t Task (with perfo	rmance	e crite	eria	a)					
Assessment Task 1					Description of assessment task 1 Adjust Engine Idle Speed as per given instruction						
During followin		al assessment, c	andida	te de	mo	onstrate	ed the	Yes	No	Remarks	
1	Performance Criteria 1: Applied relevant health and safety requirements during completion of task				and						
2	Performance Criteria 2: Selected tools equipment according to job requirement					nd					
3	Performance Criteria 4: Adjusted eng by adjusting throttle valve adjusting s						eed				
4	Performa completio	nce Criteria 5: Er n of task	sured	hous	ek	eeping	after				
Compe	tent 🗆				Ν	lot Yet	Compe	tent 🗆			

Assess	sment Task 2	Description of assessment task 2 Adjust Air Fuel Ratio as per given instruction			
During the practical assessment, candidate demonstrated the following:			Yes	No	Remarks
1	Performance criteria 1: Applied relevant health and safety requirements during completion of task				
2	Performance Criteria 2: Selected tools and equipment according to job requirement				
3	Performance criteria 3: Found the adjustment screws on the carburettor				
4	Performance Criteria 4: Started the engine and warm-up to normal operating temperature				
5	Performance Criteria 5: Adjusted screw to find the right mixture				
6	Performance Criteria 6: Ensured housekeeping after completion of task				
Compe	etent 🗆	Not Yet Compe	tent 🗆		

Assess	sment Task 3	Description of assessment task 3 Adjust Tappet Clearance as per given instruction			
During the practical assessment, candidate demonstrated the following:			Yes	No	Remarks
Performance Criteria 1: Applied relevant health and safety requirements during completion of task					
2	Performance Criteria 2: Selected tools and equipment according to job requirement				
3	Performance Criteria 3: Removed tappet cover and related parts				
4	Performance Criteria 4: Turned the crankshaft to close the intake and exhaust valves				
5	Performance Criteria 5: Used feeler gauge to adjust tappet clearance as per workshop manual				
6	Performance Criteria 6: Refitted all parts with defined procedure				
7	Performance Criteria 7: Ensured housekeeping after completion of task				
Competent ☐ Not Yet Compe			tent 🗆	•	

Assess	sment Task 4	Description of assessment task 4 Clean/Adjust/Replace Spark Plugs as per given instruction				
During followir	the practical assessment, candidate de ng:	monstrated the	Yes	No	Remarks	
1	Performance criteria 1: Applied relevant health and safety requirements during completion of task					
2	Performance Criteria 2: Selected tools and equipment according to job requirement					
3	Performance Criteria 3: Cleaned spark	c plug leads				
4	Performance Criteria 4: Removed and plugs	clean spark				
5	Performance Criteria 5: Adjusted plug gaps as per standard if required					
6	Performance Criteria 6: Replaced spark plugs with new ones					
7	Performance Criteria 7: Ensured hous completion of task	ekeeping after				
Compe	etent 🗆	Not Yet Compe	tent \square			

Portfolio (if any)			Description of portfolio					
Current	t 🗆	Sufficient	Authentic	С П	Valid			Reliable 🗆
Portfoli	o meet the	e following perform	nance stand	ards: Yes No Remarks			Remarks	
1	Performance criteria 1 for the evaluation of portfolio: Submit note book or practical activity journal, completed during this specific module, for relevant activity with drawing/illustration.							
Compe	etent \square			Not Yet C		etent \square	i	

Title of Qualification: Automotive Mechatronics	CS Code:	Level: 3	Version:
Competency Standard Title: Perform Engine Tuning	Assessment [Date (DD/MM/YY):

Candidate Details	Name: Candidate Signature:	. Registration/Roll Number:
Written Assessment Outcome	COMPETENT Name of the Assessor: Signature of the Assessor:	NOT YET COMPETENT . Assessor's code:

Title of Qualification:	CS Code:	Level: 3	Version:
Automotive Mechatronics			
Competency Standard Title:	Assessmen	t Date (DD/MI	M/YY):
Competency Standard Title: Perform Engine Tuning	Assessmen	t Date (DD/MI	M/YY):
	Assessmen	t Date (DD/MI	M/YY):

Question	Candidate's answer
19. Name different types of filter used in a vehicle?	
20. At which stroke do we set tappet clearance and why?	
21. How to adjust engine idle speed?	
22. What is the main purpose of ignition system	
23. Which tools do we use to set tappet clearance?	

Title of Qualification: Automotive Mechatronics	CS Code: 071400951	Level: 3	Version:
Competency Standard Title: Perform General Inspection	Assessment D	Pate (DD/MM/YY):

Candidate Details	Name:
	Registration/Roll Number:
	To meet this standard, you are required to complete the following within the given time frame (for practical demonstration & assessment):
Guidance	23. Assessment Task 1: Inspect Mechanical and Electrical Failure as per
for Candidate	specific criteria 24. Assessment Task 2: Prepare Job Card via road testing as per specific criteria
	And complete:
	25. Knowledge assessment test (Written or Oral)26. Portfolios at the time of assessment (if any)
	During a practical assessment, under observation by an assessor, you will complete:
	Assessment Task 1
	Performance Criteria 1: Apply relevant health and safety requirements during completion of task
	Performance Criteria 2: Select tools and equipment as per given task
	Performance Criteria 3: Check Brake fluid, coolant and engine oil level
	Performance Criteria 4: Check Battery voltage and specific gravity of electrolyte using hydrometer
	Performance Criteria 5: Check the alternator output voltage with DMM (digital multi-meter)
	Performance Criteria 6: Accelerate the engine to check engine noise
	Performance Criteria 7: Ensure housekeeping after completion of task
	Assessment Task 2
	Performance Criteria 1: Apply relevant health and safety requirements during completion of task
	Performance Criteria 2: Select tools and equipment as per given task
	Performance Criteria 3: Perform road test as per standard procedure
	Performance Criteria 4: Check the wheel alignment during driving
	Performance Criteria 5: Note down the faults on job card
	Performance Criteria 6: Ensure housekeeping after completion of task
	Portfolios required at the time of assessment (if any) for
	Performance criteria 1 for the evaluation of portfolio: Submit note book or practical activity journal, completed during this specific module, for relevant activity with drawing/illustration.

Candid Details	ate	Name:									
Assess Outcom		COMPETENT NOT YET COMPETENT Name of the Assessor: Assessor's code: Signature of the Assessor:									
		A	1 0			<u> </u>	CH . II	(1		>	
	Activ	Assessm	ent Su	mma		to be		by the a	assess	or) Res	eult
Activity Nature of Activity			Written	Oral		Observation	Portfolio	Role Play		Sompetent	Not Yet Competent
Practica	al Skill Den	nonstration)		√	<u></u>	✓		J	20
Knowle	dge Asses	sment	✓	✓							
Other F	Requiremer	nt					✓				
Each A	ssessment	t Task (with perfo	rmance	e crite	eria))			•		
Assess	ment Task	1			Ins	-	Mecha	assessi nical a			ure as per given
During followin		al assessment, c	andida	te dei	mor	nstrate	ed the	Yes	No	Remarks	
1		nce Criteria 1: Ap quirements during					and				
2		nce Criteria 2: Se nt according to jol				t					
3		nce Criteria 3: Ch ne oil level	necked	Brak	e flu	ıid, co	oolant				
4		nce Criteria 4: Chravity of electroly					e and				
5		nce Criteria 5: Ch Itage with DMM (
6		nce Criteria 6: Ac gine noise	celerat	ed th	e ei	ngine	to				
7	Performa completio	nce Criteria 7: Er n of task	nsured	house	eke	eping	after				
Compe	tent 🗆				No	t Yet	Compe	tent 🗆			

Assess	sment Task 2	Description of assessment task 2				
		Prepare Job Card via road testing as per given instruction				
During followir	the practical assessment, candidate de ng:	monstrated the	Yes	No	Remarks	
1	Performance criteria 1: Applied relevant health and safety requirements during completion of task					
2	Performance Criteria 2: Selected tools equipment according to job requireme					
3	Performance criteria 3: Performed roa standard procedure	d test as per				
4	Performance Criteria 4: Checked the wheel alignment during driving					
5	Performance Criteria 5: Noted down the faults on job card					
6	Performance Criteria 6: Ensured housekeeping after completion of task					
Compe	etent	Not Yet Compe	tent 🗆			

Portfoli	io (if any)			Description	on of p	ortfolic)	
Current	ıt 🗆	Sufficient	Authentic	c 🗆	Valid			Reliable
Portfolio meet the following performance standards:					Yes	No	Remarks	
1	Performance criteria 1 for the evaluation of portfolio: Submit note book or practical activity journal, completed during this specific module, for relevant activity with drawing/illustration.							
Compe	etent 🗆			Not Yet C	Jompe	etent 🗆	i	

Title of Qualification:	CS Code:	Level:3	Version:
Automotive Mechatronics			
Competency Standard Title:	Assessment D	ate (DD/MM/YY) :
Perform General Inspection			
Perform General Inspection			
Perform General Inspection			

Candidate Details	Name: Candidate Signature:	3
Written Assessment Outcome	COMPETENT Name of the Assessor: Signature of the Assessor:	NOT YET COMPETENT Assessor's code:

Title of Qualification:	CS Code:	Level: 3	Version:
Automotive Mechatronics			
Competency Standard Title:	Assessmen	t Date (DD/MI	M/YY):
Competency Standard Title: Perform General Inspection	Assessmen	t Date (DD/MI	M/YY):
	Assessmen	t Date (DD/MI	M/YY):

Question	Candidate's answer
24. Which instrument do we use to check specific gravity of electrolyte?	
25. Which instrument do we use to check battery voltage?	
26. What are the main factors relate to non-starting of engine?	
27. What mandatory checkups to be done before starting an engine?	1.
28. What DTC stands for?	

Title of Qualification: Automotive Mechatronics	CS Code: 071400958	Level: 3	Version:
Competency Standard Title: Perpetuate Controlled Electrical & Electronics System - I	Assessment [Date (DD/MM/YY):

Candidate Details	Name:				
	Registration/Roll Number:				
	To meet this standard, you are required to complete the following within the given time frame (for practical demonstration & assessment):				
	27. Assessment Task 1: Service Windshield Wash and wiper system as per specific criteria				
Guidance for Candidate	28. Assessment Task 2: Diagnose and repair Electronic system through OBD-II sensor				
	And complete:				
	29. Knowledge assessment test (Written or Oral) 30. Portfolios at the time of assessment (if any)				
	During a practical assessment, under observation by an assessor, you will complete:				
	Assessment Task 1				
	Performance Criteria 1: Apply relevant health and safety requirements during completion of task				
	Performance Criteria 2: Select tools and equipment as per job requirement				
	Performance Criteria 3: Test function of rain sensor				
	Performance Criteria 4: Test performance of pump and wiper motors				
	Performance Criteria 5: Replace faulty parts				
	Performance Criteria 6: Ensure housekeeping after completion of task				
	Assessment Task 2				
	Performance Criteria 1: Apply relevant health and safety requirements during completion of task				
	Performance Criteria 2: Select tools and equipment as per job requirement				
	Performance Criteria 3: Check gauges of instrument panel				
	Performance Criteria 4: Check performance of indicators and warning lights				
	Performance Criteria 5: Connect OBD-II Scanner				
	Performance Criteria 6: Replace the faulty sensors and actuators				
	Performance Criteria 7: Ensure housekeeping after completion of task				

Portfolios required at the time of assessment (if any) for

Performance criteria 1 for the evaluation of portfolio: Submit note book or practical activity journal, completed during this specific module, for relevant activity with drawing/illustration.

Continued on following page

Candid Details	ate	Name:								
Assess Outcom		COMPETENT NOT YET COMPETENT Name of the Assessor: Assessor's code: Signature of the Assessor:								
		Assessm	ent Su	mmar	y (to be	filled k	y the a	assess	or)	
	Activ	vity			Method	k			Res	sult
Nature of Activity		Written	Oral	Observation	Portfolio	Role Play	Competent		Not Yet Competent	
Practica	al Skill Der	monstration			✓		✓			
Knowle	dge Asses	ssment	✓	✓						
Other F	Requireme	nt				✓				
Each A	ssessmen	t Task (with perfo	rmance	e crite	ria)					
Assessment Task 1 Description of assessment task 1 Service Windshield Wash and wiper system as per given instruction					ystem as per					
During the practical assessment, candidate demonstrated the following:										
1	Performance Criteria 1: Applied relevant health and safety requirements during completion of task									
2		ormance Criteria 2: Selected tools and orment according to job requirement								
3	Performa sensor	rmance Criteria 3: Tested function of rain								
4		rformance Criteria 4: Tested performance of pump d wiper motors								
5	Performa	ance Criteria 5: Replaced faulty parts								
6	Performance Criteria 6: Ensured housekeeping after completion of task									
Compe	Competent □ Not Yet Competent □									

Assess	sment Task 2	Description of a Diagnose and II sensor as pe	repair E	Electro	nic system through OBD-
During following	the practical assessment, candidate deng:	monstrated the	Yes	No	Remarks
1	Performance criteria 1: Applied releval safety requirements during completion				
2	Performance Criteria 2: Selected tools equipment according to job requireme				
3	Performance criteria 3: Checked gaug instrument panel	es of			
4	Performance Criteria 4: Checked performation indicators and warning lights	ormance of			
5	Performance Criteria 5: Connected OB and replace faulty ones				
6	Performance Criteria 6: Ensured hous completion of task				
Compe	etent	Not Yet Compe	tent 🗆		
Portfolio (if any) Description of)	
Curren	t ☐ Sufficient ☐ Authenti			Reliable	
Portfol	io meet the following performance stand	Yes	No	Remarks	
1	Performance criteria 1 for the evaluation Submit note book or practical activity judgments completed during this specific module, activity with drawing/illustration.				
Compe	etent 🗆	Not Yet Compe	etent 🗆]	

Title of Qualification: Automotive Mechatronics	CS Code:	Level: 3	Version:
Competency Standard Title: Perpetuate Controlled Electrical & Electronics System - I	Assessment Date (DD/MM/YY):		

Guidance for Candidate

To complete your assessment for this Competency Standard, you need to answer the questions on the following pages successfully.

Assessors Guide (to be completed by the Assessor and signed both by the assessor and the candidate after the assessment)

Candidate Details	Name: Candidate Signature:	-
Written Assessment Outcome	COMPETENT Name of the Assessor: Signature of the Assessor:	NOT YET COMPETENT Assessor's code:

Title of Qualification:	CS Code:	Level: 3	Version:
Automotive Mechatronics			
Competency Standard Title:	Assessmen	t Date (DD/MI	M/YY):
Perpetuate Controlled Electrical & Electronics System - I			

WRITTEN ASSESSMENT

Question	Candidate's answer
29. Define Motors and explain its types?	
30. Define Sensors and their types?	
31. Identify different indicators and warning lights?	
32. Enlist different types of gauges and meter used in instrument panel?	
33. Enlist main components of windshield wash & wiper system?	

Title of Qualification: Automotive Mechatronics	CS Code: 071400955	Level: 3	Version:
Competency Standard Title: Service Comfort and Safety System-I	Assessment D	Pate (DD/MM/YY):

	<u>'</u>
Candidate Details	Name:
	Registration/Roll Number:
Guidance for	To meet this standard, you are required to complete the following within the given time frame (for practical demonstration & assessment): 31. Assessment Task 1: Maintain Power Window & Central Locking System 32. Assessment Task 2: Service Heat Ventilating and Air-Conditioning (HVAC) system
Candidate	And complete:
	And complete: 33. Knowledge assessment test (Written or Oral)
	34. Portfolios at the time of assessment (if any)
	During a practical assessment, under observation by an assessor, you will complete:
	Assessment Task 1
	Performance Criteria 1: Apply relevant health and safety requirements during completion of task
	Performance Criteria 2: Select tools and equipment as per job requirement
	Performance Criteria 3: Diagnose faults in power window system and rectify the faults
	Performance Criteria 4: Diagnose faults in central locking system and rectify the faults
	Performance Criteria 5: Check fuse, relays, electrical wire harness and connectors
	Performance Criteria 6: Check power window motors
	Performance Criteria 7: Ensure housekeeping after completion of task
	Assessment Task 2
	Performance Criteria 1: Apply relevant health and safety requirements during completion of task
	Performance Criteria 2: Select tools and equipment as per job requirement
	Performance Criteria 3: Check blower fan and rectify failures.
	Performance Criteria 4: Test performance of thermostat and rectify failures
	Performance Criteria 5: Test performance of AC compressor and rectify failures
	Performance Criteria 6: Test performance of AC condenser and rectify
	failures
	Performance Criteria 7: Test performance receiver/dryer or accumulator and rectify failures.
	Performance Criteria 8: Test performance of expansion valve and rectify failures.
	Performance Criteria 9: Perform refrigerant leak test
	Performance Criteria 10: Re-charge AC refrigerant and test the system
	Performance Criteria 11: Ensure housekeeping after completion of task

Portfolios required at the time of assessment (if any) for

Performance criteria 1 for the evaluation of portfolio: Submit note book or practical activity journal, completed during this specific module, for relevant activity with drawing/illustration.

Continued on following page

Assessors Judgment Guide (to be completed by the Assessor and signed both by the assessor and the candidate after the assessment)

Candidate Details	Name: Candidate Signature:	Ğ					
Assessment Outcome	COMPETENT Name of the Assessor: Signature of the Assessor:						
Assessment Summary (to be filled by the assessor)							

Assessment Summary (to be filled by the assessor)								
Activity			Method	<u>t</u>		Res	sult	
Nature of Activity	Written	Oral	Observation	Portfolio	Role Play	Competent	Not Yet Competent	
Practical Skill Demonstration ✓ ✓								
Knowledge Assessment	✓	✓						
Other Requirement								

Maint			assess er Winc structio	low &	ask 1 Central Locking System
During the practical assessment, candidate demonstrated the following:			Yes	No	Remarks
1	Performance Criteria 1: Applied relevant health and safety requirements during completion of task				
2	Performance Criteria 2: Selected tools equipment according to job requirement				
3	Performance Criteria 3: Diagnosed fau window system and rectify the faults				
4	Performance Criteria 4: Diagnosed faults in central locking system and rectify the faults				
5	Performance Criteria 5: Checked fuse, relays, electrical wire harness and connectors				
6	Performance Criteria 6: Checked power window motors				
7	Performance Criteria 7: Ensured housekeeping after completion of task				
Comp	etent 🗆	Not Yet Compe	tent \square		

Asses	sment Task 2		ing an	ask 2 d Air-Conditioning en instruction	
During followi	the practical assessment, candidate deng:	monstrated the	Yes	No	Remarks
1	Performance criteria 1: Applied relevant safety requirements during completion				
2	Performance Criteria 2: Selected tools equipment according to job requirement				
3	Performance criteria 3: Checked blower rectify failures.	er fan and			
4	Performance Criteria 4: Tested performathermostat and rectify failures	nance of			
5	Performance Criteria 5: Tested perforr compressor and rectify failures				
6	Performance Criteria 6: Tested performance of AC condenser and rectify failures				
7	Performance Criteria 7: Tested performance receiver/dryer or accumulator and rectify failures				
8	Performance Criteria 8: Tested performance of expansion valve and rectify failures.				
9	Performance Criteria 9: Performed refrigerant leak test				
10	Performance Criteria 10: Re-charge AC refrigerant and test the system				
11	Performance Criteria 7: Ensured housekeeping after completion of task				
Compe	etent 🗆	Not Yet Compe	tent 🛘		

Portfolio (if any)			Description	on of p	oortfolio)		
Curren	t 🗆	Sufficient	Authentio	с□	Valid			Reliable 🗆
Portfoli	o meet the	e following perform	nance stand	ards:		Yes	No	Remarks
Performance criteria 1 for the evaluation of portfolio: Submit note book or practical activity journal, completed during this specific module, for relevant activity with drawing/illustration.								
Competent ☐ Not Yet Com				Compe	etent \square			

Title of Qualification:	CS Code:	Level: 3	Version:
Automotive Mechatronics			
Competency Standard Title:	Assessment D	oate (DD/MM/YY):
Service Comfort & Safety System-I			
Service Comfort & Safety System-I			

Guidance	To complete your assessment for this Competency Standard, you need to
for	answer the questions on the following pages successfully.
Candidate	

Assessors Guide (to be completed by the Assessor and signed both by the assessor and the candidate after the assessment)

Candidate Details	Name: Candidate Signature:	
Written Assessment Outcome	COMPETENT Name of the Assessor: Signature of the Assessor:	NOT YET COMPETENT . Assessor's code:

AP - Level 3 Page | 1

Title of Qualification:	CS Code:	Level: 3	Version:
Automotive Mechatronics			
Competency Standard Title:	Assessme	nt Date (DD/	MM/YY):
Competency Standard Title: Service Comfort & Safety System-I	Assessme	nt Date (DD/	MM/YY):
	Assessme	nt Date (DD/	MM/YY):

WRITTEN ASSESSMENT

Question	Candidate's answer
34. Name main components of Air-conditioning system?	
35. How does AC clutch work?	
36. What is the main function of thermostat in engine cooling system	
37. What are the two pressure lines in AC system	
38. What does expansion valve do in AC system?	

Title of Qualification: Automotive Mechatronics	CS Code:	Level: 3	Version:
Competency Standard Title: Integrated Assessment Lev 3	Assessment Date (DD/MM/YY):		

Candidate Details	Name:
	Registration/Roll Number:
	To meet this standard, you are required to complete the following tasks within the given time frame (for practical demonstration & assessment):
	35. Assessment Task 1: Clean/Adjust/Replace Contact Breaker Point as per vehicle's manual
Guidance	36. Assessment Task 2: Perform Maintenance of Automatic Transmission as per vehicle's manual
Candidate	37. Assessment Task 3: Perform Road Test and Prepare Job Card as per given instructions
	And complete:
	38. Knowledge assessment test (Written or Oral) 39. Portfolios at the time of assessment (if any)
	During a practical assessment, under observation by an assessor, you will complete:
	Assessment Task 1: Clean/Adjust/Replace Contact Breaker Point as per vehicle's manual
Minimum Evidence	Performance Criteria 1: Apply relevant health and safety requirements during completion of task
Required	Performance Criteria 2: Select tools and equipment for the given task
	Performance Criteria 3: Clean and adjust Contact Breaker point
	Performance Criteria 4: Replace Contact Breaker point
	Performance Criteria 5: Clean distributor cap segments
	Performance Criteria 6: Ensure housekeeping after completion of task

2. Assessment Task 2: Perform Maintenance of Automatic Transmission as per vehicle's manual

Performance Criteria 1: Apply relevant health and safety requirements during completion of task

Performance Criteria 2: Select tools and equipment for the given task

Performance Criteria 3: Test automatic transmission fluid pressure

Performance Criteria 4: Test/Replace vehicle speed sensor

Performance Criteria 5: Check/Replace multi-plate clutches

Performance Criteria 6: Check/Replace transmission fluid strainer

Performance Criteria 7: Check/replace valve body

Performance Criteria 8: Check/Replace torque converter

Performance Criteria 9: Check/Replace transmission oil seals

Performance Criteria 10: Maintain/replace automatic transmission fluid

Performance Criteria 11: Ensure housekeeping after completion of task

3. Assessment Task 3: Perform Road Test and Prepare Job Card as per given instructions

Performance Criteria 1: Apply relevant health and safety requirements during completion of task

Performance Criteria 2: Select tools and equipment for the given task

Performance Criteria 3: Perform road test applying correct procedure

Performance Criteria 4: Accelerate the engine to check engine noise

Performance Criteria 5: Apply brake to check loose parts and noisy suspension

Performance Criteria 6: Check the wheel alignment during driving

Performance Criteria 7: Prepare Job Card by enlisting mechanical, electrical, electronic and hydraulic faults in vehicle

Performance Criteria 8: Ensure housekeeping after completion of task

Portfolios required at the time of assessment (if any) for

Performance criteria 1 for the evaluation of portfolio: Submit note book or practical activity journal, completed during this specific module, for relevant activity with drawing/illustration

Continued on following page

Assessors Judgment Guide (to be completed by the Assessor and signed both by the assessor and the candidate after the assessment)

Candid Details		Name:								
	Assessment Outcome COMPETENT Name of the Assessor: Signature of the Assessor:									
		Assessm	ent Su	mmar	v (to be	filled b	ov the	assess	sor)	
	Activ		one ou	a.	Method		<i>y</i>		Res	sult
Nature	Nature of Activity			Oral	Observation	Portfolio	Role Play		Competent	Not Yet Competent
Practic	al Skill Der	nonstration			✓		✓			
Knowle	edge Asses	sment	✓	✓						
Other F	Requireme	nt				✓				
Each A	Assessment	t Task (with perfo	rmance	e crite	ria)					
Assess	sment Task	.1			Descrip Clean/A vehicle	\djust/l	Replac			er Point as per
During followir	•	al assessment, c	andida	te den	nonstrate	ed the	Yes	No	Remarks	
1	Performance criteria 1: Applied relevant health and safety requirements during completion of task			and						
2		Performance criteria 2: Selected tools and equipment or the given task								
3	Performa Breaker p	ormance criteria 3: Cleaned and adjust ker point			ljust Cor	ntact				
4	Performance Criteria 4: Replaced Contact Bre point			act Brea	ker					
5	Performance Criteria 5: Cleaned distributor can									
6	Performance Criteria 6: Ensured housekeeping after completion of task									

Not Yet Competent □

Competent \square

Assessment Task 2 Description of assessment task 2 Perform Maintenance of Automatic Transmissi per vehicle's manual					
During the practical assessment, candidate demonstrated the following:				No	Remarks
1	Performance criteria 1: Applied relevant safety requirements during completion				
2	Performance criteria 2: Selected tools for the given task	and equipment			
3	Performance criteria 3: Tested automa transmission fluid pressure	atic			
4	Performance Criteria 4: Tested/Replaced vehicle speed sensor				
5	Performance Criteria 5: Checked/Replaced multi- plate clutches				
6	Performance Criteria 6: Checked/Replaced transmission fluid strainer				
7	Performance Criteria 7: Checked/repla	aced valve			
8	Performance Criteria 8: Checked/Replaced torque converter				
9	Performance Criteria 9: Checked/Replaced transmission oil seals				
10	Performance Criteria 10: Maintained/replaced automatic transmission fluid				
11	Performance Criteria 11: Ensured housekeeping after completion of task				
Comp	Competent □ Not Yet Competent □				

Assessment Task 3 Description of Perform Road given instruction					ask 3 epare Job Card as per
During the practical assessment, candidate demonstrated the following:			Yes	No	Remarks
1	Performance criteria 1: Applied releval safety requirements during completion				
2	Performance criteria 2: Selected tools for the given task	and equipment			
3	Performance criteria 3: Performed road test applying correct procedure				
4	Performance Criteria 4: Accelerated the engine to check engine noise				
5	Performance Criteria 5: Applied brake to check loose parts and noisy suspension				
6	Performance Criteria 6: Checked the wheel alignment during driving				
7	Performance Criteria 7: Prepared Job Card by enlisting mechanical, electrical, electronic and hydraulic faults in vehicle				
8	Performance Criteria 8: Ensured housekeeping after completion of task				
Compe	etent	Not Yet Competent □			

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