सत्यमेव जयते

COMPETENCY BASED CURRICULUM

AUTOMOTIVE BODY REPAIRING TECHNICIAN

(Duration: One Year)

CRAFTSMEN TRAINING SCHEME (CTS)

(Flexi MoU)

NSQF LEVEL- 4

SECTOR – AUTOMOTIVE

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Directorate General of Training

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AUTOMOTIVE BODY REPAIRING TECHNICIAN

(Engineering Trade)

(Revised in 2019)

Version: 1.1

CRAFTSMEN TRAINING SCHEME (CTS)

(Flexi MoU)

NSQF LEVEL - 4

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CENTRAL STAFF TRAINING AND RESEARCH INSTITUTE

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1. COURSE INFORMATION

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2. TRAINING SYSTEM

2.1 GENERAL

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Broadly candidates need to demonstrate that they are able to:

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-
-
-
-

2.2 CAREER PROGRESSION PATHWAYS

-
-
-

Internal Assessment **Formative Assessment Method**

The learning outcome and assessment criteria will be the basis for setting question papers for final assessment. The examiner during final examination will also check

2.4.1 PASS REGULATION

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Performance Level	Evidence

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	Essential Qualification:
3. Engineering Drawing	**Essential Qualification:**
4. Employability Skill	
5. Minimum Age for	

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Instructor	
List of Tools and Equipment	

Distribution of training on Hourly basis: (Indicative only)

Total Hours/Week	Trade Practical	Trade Theory	Workshop Cal. &Sc.	Engineering Drawing	Employability Skills

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5. NSQF LEVEL COMPLIANCE

AUTOMOTIVE BODY REPAIRING TECHNICIAN (Flexi MoU)

Automotive Body Repairing Technician

(Flexi MoU)

Level	Process Required	Professional Knowledge	Professional Skill	Core Skill	Responsibility

6. LEARNING OUTCOME

Learning outcomes are a reflection of total competencies of a trainee and assessment will be carried out as per the assessment criteria.

6.1 GENERIC LEARNING OUTCOMES

pply safe working practices.

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6.2 SPECIFIC LEARNING OUTCOMES

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7. LEARNING OUTCOME WITH ASSESSMENT CRITERIA

GENERIC LEARNING OUTCOME	
LEARNING OUTCOME	**ASSESSMENT CRITERIA**
EMPLOYBILITY SKILLS	

WORKSHOP CALCULATION & SCIENCE	

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SPECIFIC LEARNING OUTCOME	
LEARNING OUTCOME	**ASSESSMENT CRITERIA**

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8. SYLLABUS

SYLLABUS – AUTOMOTIVE BODY REPAIRING TECHNICIAN			
Week No.	**Reference Learning Outcome**	**Professional Skills (Trade Practical)**	**Professional Knowledge (Trade Theory)**
		Admission & introduction to the trade (32 hrs)	**Admission & introduction to the trade (6 hrs)**
		Practical related to Safety and Health (32 hrs)	**Occupational Safety & Health (6 hrs)**

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		Systems of measurement (32 hrs)	**Systems of measurement (6 hrs)**
		Hand Tools (64 hrs)	**Hand Tools (12 hrs)**

		Fasteners (32 hrs)	**Fasteners (6 hrs)**
		Cutting tools, Limits, Fits & Tolerances (32 hrs)	**Cutting tools, Limits, Fits & Tolerances (6 hrs)**

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			Limits, Fits & Tolerances
		Drilling machine, Taps and Dies, Hand Reamers (32 hrs)	**Drilling machine, Taps and Dies, Hand Reamers (6 hrs)** **Drilling machine** **Taps and Dies:** **Hand Reamers**

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		Basic electricity (32 hrs)	**Basic electricity (6 hrs)** **Basic electricity,**
		Auto Industry & Authorities (32 hrs) **,**	**Auto Industry & Authorities (6 hrs)**

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		Vehicle construction Technology (64 hrs)	**Vehicle construction Technology (12 hrs)**

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		Compressor & Air system (64 hrs)	**Compressor & Air system (12 hrs)**

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		Damage Assessment & Reports (96 hrs)	**Damage Assessment & Reports (18 hrs)**
		Welding (192 hrs)	**Welding (36 hrs)**

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	Project work, Revision & Mid-Term Exam		
		Sheet metal repair (96 hrs) **Practice on minor repair of damaged car**	**Sheet metal repair (18 hrs)**

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		Repairing Plastics (64 hrs)	**Repairing Plastics (12 hrs)**

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		Hood, Bumper, Fender, Lid, And Trim Service (128 hrs)	**Hood, Bumper, Fender, Lid, And Trim Service (24 hrs)**
		Door, roof, and glass Service (64 hrs)	**Door, roof, and glass Service (12 hrs)**

		Passenger compartment Service (96 hrs)	**Passenger compartment Service (18 hrs)**

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		Major Body/frame damage Measurement (96 hrs)	**Major Body/frame damage Measurement (18 hrs)**
		Unibody/frame alignment (192 hrs)	**Unibody/frame alignment (36 hrs)**

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	Project work		
	Revision		
	Examination		

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9. SYLLABUS - CORE SKILLS

9.1 WORKSHOP CALCULATION SCIENCE & ENGINEERING DRAWING

Duration: One Year		
S No.	**Workshop Calculation (40 hrs) and Science (40 Hrs) (Total 80 Hrs)**	**Engineering Drawing (80 Hours)**

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	Materials - Stress, strain,-	
	Forces	

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	Work energy, power-	
	Factorisation and quadratics:	
	Geometry-	
	Trigonometry-	

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	Heat and temperature	
	Heating, expansion and compression of gases	
	Internal combustion engines-	

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	Fuels and combustion-	

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9.2 EMPLOYABILITY SKILLS

Duration: One Year (Total 160 Hours)	
1. English Literacy	**Duration: 25 hrs.** **Marks : 09**
2. IT Literacy	**Duration: 25 hrs.** **Marks : 09**

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3. Communication Skills	**Duration: 19 hrs.** **Marks : 07**
4. Entrepreneurship Skills	**Duration: 17 hrs.** **Marks : 06**

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5. Productivity	**Duration: 14 hrs.** **Marks : 05**
6. Occupational Safety, Health and Environment Education	**Duration: 16 hrs.** **Marks : 06**

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7. Labor Welfare Legislation	**Duration: 8 hrs.** **Marks : 03**
8. Quality Tools	**Duration: 14 hrs.** **Marks : 05**

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ANNEXURE-I

LIST OF TOOLS AND EQUIPMENT			
AUTOMOTIVE BODY REPAIRING TECHNICIAN (For batch of 20 candidates)			
S No.	**Name of the Tool & Equipments**	**Specification**	**Quantity (Nos.)**
A. TRAINEES TOOL KIT			
B. INSTRUMENTS AND GENERAL SHOP OUTFIT - For 2 (1+1) units no additional items are required			

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C. GENERAL INSTALLATION/ MACHINERIES			

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Tools & Equipment for Employability Skills		
S No.	**Name of the Equipment**	**Quantity**

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ANNEXURE - II

MSIL - Maruti Suzuki Training Academy

Trainee Internal Assessment Report

Name :		**Batch No:**	
Card ID No :		**Dept:**	
Attendance % :			

Quarters	Month	Attend %	Month	Attend %	Month	Attend %	Quarterly Average Attend. %
Qtr-1							
Qtr-2							
Qtr-3							
Qtr-4							

General Assessment **Assessment Period :**

S.No	ATTRIBUTES		Score Qtr-1	Score Qtr-2	Score Qtr-3	Score Qtr-4	Score Sum of 4-Qtrs
	Safety						
	Sense of Responsibility						
	Method						
	Speed						
	Quality						
		Total Score					
		Max. Marks					

(Fill score in relevant box) **Excellent : 4, Very Good : 3, Good : 2, Fair : 1, Need Improvement : 0**

Remarks (Supervisor): (Mention achievement/Critical incidents)

Remarks (Shift Incharge/Dept, Manager):

Remarks (MSTA Training Coordinator):

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