

**NATIONAL VOCATIONAL EDUCATION QUALIFICATION
FRAMEWORK [NVEQF]**

**GENERAL SCHEMA
(AUTOMOBILE SECTOR)**

ALL INDIA COUNCIL FOR TECHNICAL EDUCATION

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Introduction

All [India](#) Council for Technical Education, (AICTE), the apex body for making and maintaining the norms of Technical Education in the country has framed a National [Vocational](#) Education Qualification Framework (NVEQF) for the polytechnics and Engineering Colleges.

NVEQF is introduced by Government in order to formally integrate vocational education together with its current conventional educational streams across school and higher education space and provide an opportunity and incentive to students to explore a large universe of opportunity.

It is important that a Vocational Educational Qualification Framework is in place that allow cross mobility of standards and their absorption in Industry with certain skill gained over a fixed period of time or their seamless integration into higher learning that enable them to acquire formal degree and higher skill so that they perform higher level jobs in Industry.

Rational of NVEQF

- **Across sectors and across the country.** The Initiative addresses skills in all sectors and areas.
- **Short duration, focused and modular programs** allow for quick and effective delivery of skills training. This allows a person to become productive relatively quickly at younger age. The modular approach also means that he can add on to his portfolio of skills for vertical and horizontal progression. At the same time the content is focused to allow for dissemination of only relevant skill. The duration is decided taking into account the objectives and content of the constituent programs. Amongst other things it would be based on Employer-Employee needs, availability of Infrastructure and Equipment, Characteristics of the Training Content, etc
- Programmes of varied durations ranging from **short courses** to more protracted ones, depending on the skill and the requirements at particular certificate level.
- The practical hands on skills for **delivery in the local language**, thereby allowing for provision of local trainers, congenial and effective delivery.
- The delivery of the program is flexible it could be **full day, half day or week end programs**. This would again be decided on availability of candidate's spare time, availability of training infrastructure and spare capacities, etc.

- Training could be delivered through a **network of centres** that could include Technical and Non-Technical Schools and Colleges industry centres, Training Organizations, Services, In addition, for practical training, laboratories of industries could be used as Training Sites for skill enhancement, where required.

| | | Case I | | Case II | |
|----------------------------|-----------------------------------|---------------------------------|------------------------------|---------------------------------|------------------------|
| Certification Level | Normal Qualification | Vocational Qualification | Certifying Body | Vocational Qualification | Certifying Body |
| 7 | 3 rd yr bachelors | Advanced Diploma | Board of Technical Education | Degree | University |
| 6 | 2 nd yr bachelors | | | | |
| 5 | 1 st yr bachelors | Diploma | Board of Technical Education | Grade XII | School Board |
| 4 | Higher Secondary School Grade XII | | | | |
| 3 | Higher Secondary School Grade IX | | | | |
| 2 | Secondary School Grade X | Grade X | School Board | Grade X | School Board |
| 1 | Secondary School Grade IX | Grade IX | School Board | Grade IX | School Board |

Framework options for a student

GENERAL SCHEME OF STUDIES

There shall be Seven Certificate level; each level will have following distribution for General and Vocational education -

| Certificate Level | Contact Hours for Vocational & General Education | |
|-------------------|--|----------|
| | Vocational | Academic |
| 1 | 200-300 | 700-800 |
| 2 | 200-300 | 700-800 |
| 3 | 300-400 | 600-700 |
| 4 | 300-400 | 600-700 |
| 5 | 400-500 | 500-600 |
| 6 | 500-600 | 400-500 |
| 7 | 600-700 | 300-400 |

- Internal distribution of teaching hours for each subjects to be done by concerned board/university as per the need
- For any clarification at level I to IV of General Content, Syllabus of C.B.S.E. may be referred
- The given contents are indicative one and concerned Boards/ University may make desirable changes as per the local needs

- The evaluation of Vocational part shall be done by respective SKPs and shall award grades on five point scale.
- The concerned institutes shall forward the grade to Board/University for the purpose of issuing Level Certificate.

SKILL SECTORS/ SPECIALISATIONS AND GENERAL CONTENT

| Sector | Specialization | General Content |
|---------------|------------------------------------|------------------------|
| Automobiles | | Science Stream |
| | 1 Engine Testing | |
| | 2 Vehicle Testing | |
| | 3 Vehicle Quality | |
| | 4 Auto Electricals and Electronics | |
| | 5 Farm Equipment and Machinery | |

NATIONAL VOCATIONAL EDUCATIONAL QUALIFICATION FRAMEWORK (NVEQF)
SECTOR: AUTOMOBILES

SPECIALIZATION: ENGINE TESTING: NVEQF/AUTO/ET/LI

CERTIFICATE LEVEL- I

| S.N O | VOCATIONAL CONTENT (DETAIL CONTENT AT L All Vocational Ed Auto) | HRS . | S.N O | GENERAL CONTENT | HRS . |
|------------------|---|------------------|------------------|---|------------------|
| 1. | TOOLS : TOOLS USAGE | 10 | | SUBJECT OF STUDIES THE LANGUAGES WILL BE FROM THE FOLLOWING WITH THE FOLLOWING STRUCTURE (ANY TWO) HINDI, ENGLISH, ASSAMESE, BENGALI, GUJRATI, KANNADA, KASHMIRI, MARATHI, MALAYALAM, MANIPURI, ORIYA, PUNJABI, SINDHI, TAMIL, TELUGU, URDU, LEPCHA, LIMBU, BHUTIA, SANSKRIT, ARABIC, PERSIAN, FRENCH, GERMAN, PORTUGUESE, RUSSIAN, SPANISH, NEPALI, TIBETAN AND MIZO, TANGKHUL AND BODO. (DETAIL CONTENT AT L_1_Language) | |
| | | | 1. | LANGUAGE I | 140 |
| | | | 2. | LANGUAGE II | 140 |
| 2. | 2 W ENGINES SCOOTER : COMPLETE ENGINE STRIPPING MOTOR CYCLES: ENGINE REASSY | 100 | 3. | MATHEMATICS (DETAIL CONTENT AT L_1_General_Ed) | 140 |
| 3. | 2W GEN VEHSERV: | 90 | 4. | SCIENCE (DETAIL CONTENT AT L_1_General_Ed) | 180 |
| 4. | | | 5. | SOCIAL SCIENCE (DETAIL CONTENT AT L_1_General_Ed) | 180 |
| | TOTAL VOC CONTENT | 200 | | TOTAL GENERAL CONTENT | 780 |
| | GRAND TOTAL | | | 980 HRS. | |

SPECIALIZATION: ENGINE TESTING: NVEQF/AUTO/ET/LII

CERTIFICATE LEVEL- II

| S.NO | VOCATIONAL CONTENT (DETAIL CONTENT AT L All Vocational Ed Auto) | HRS. | S.NO | GENERAL CONTENT | HRS. |
|-------------|---|-------------|-------------|---|-------------|
| 1. | TOOLS USAGE | 10 | | SUBJECT OF STUDIES THE LANGUAGES WILL BE FROM THE FOLLOWING WITH THE FOLLOWING STRUCTURE (ANY TWO) HINDI, ENGLISH, ASSAMESE, BENGALI, GUJRATI, KANNADA, KASHMIRI, MARATHI, MALAYALAM, MANIPURI, ORIYA, PUNJABI, SINDHI, TAMIL, TELUGU, URDU, LEPCHA, LIMBU, BHUTIA, SANSKRIT, ARABIC, PERSIAN, FRENCH, GERMAN, PORTUGUESE, RUSSIAN, SPANISH, NEPALI, TIBETAN AND MIZO, TANGKHUL AND BODO. 1. (DETAIL CONTENT AT L_2_Language) LANGUAGE I 2. LANGUAGE II | 140 140 |
| 2. | 3W ENGINE PETROL : COMPLETE ENGINE STRIPPING DIESEL : ENGINE REASSY ALT FUEL: RE MOUNTING ON VEHICLE | 140 | 3. | MATHEMATICS (DETAIL CONTENT AT L_2_General_Ed) | 140 |
| 3. | 3W GEN VEHICLE ROUTINE MAINTENANCE CHECKS SERVICE: ROUTINE REPAIRS: ELECTRICALS/ CONTROLS | 100 | 4. | SCIENCE (DETAIL CONTENT AT L_2_General_Ed) | 180 |
| 4. | | | 5. | SOCIAL SCIENCE (DETAIL CONTENT AT L_2_General_Ed) | 180 |
| | TOTAL VOC CONTENT | 250 | | TOTAL GENERAL CONTENT | 780 |
| | GRAND TOTAL | | | 1030 HRS. | |

SPECIALIZATION: ENGINE TESTING: NVEQF/AUTO/ET/LIII

CERTIFICATE LEVEL- III

| S.N O | VOCATIONAL CONTENT (DETAIL CONTENT AT L All Vocational Ed Auto) | HRS . | S.N O | GENERAL CONTENT | HRS . |
|------------------|--|------------------|------------------|--|------------------|
| 1. | TOOLS : USAGE | 10 | | SUBJECT OF STUDIES I&II TWO LANGUAGES OUT OF FOLLOWING HINDI, ENGLISH, ASSAMESE, BENGALI, GUJRATI, KASHMIRI, KANNADA, MARATHI, MALYALAM, MANIPURI, ORIYA, PUNJABI, SINDHI, TAMIL, TELUGU, URDU, SANSKRIT, ARABIC, PERSIAN, LIMBOO, LEPCHA, BHUTIA, MIZO, TANGKHUL, BODO, NEPALI, TIBETAN, FRENCH, GERMAN, PORTUGUESE, RUSSIAN AND SPANISH. (DETAIL CONTENT AT L_3_Language) | 120 120 |
| 2. | 4 WHEELER ENGINE: DISMANTLING FROM VEHICLE | 150 | | ANY THREE PAPERS OUT OF FOLLOWING (DETAIL CONTENT AT L_3_General_Ed_Science_Stream) | |
| 3. | ALT FUELS ENGINE PERIPHERALS LIKE -HVAC | 120 | | MATHEMATICS | 150 |
| 4. | ENGINE CONTROLS: FUEL INJ EQPT, SENSORS | 70 | | PHYSICS | 150 |
| | | | | CHEMISTRY | 150 |
| | | | | BIOLOGY | 150 |
| | | | | BIOTECHNOLOGY | 150 |
| | | | | ENGINEERING GRAPHICS | 150 |
| | | | | AGRICULTURE | 150 |
| | | | | COMPUTER SCIENCE | 150 |

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|--|--------------------------|------------|-------------------------------|------------|
| | | | INFORMATICS PRACTICES | 150 |
| | | | MULITMEDIA AND WEB TECHNOLOGY | 150 |
| | TOTAL VOC CONTENT | 350 | TOTAL GENERAL CONTENT | 690 |
| | GRAND TOTAL | | 1040 HRS. | |

SPECIALIZATION: ENGINE TESTING: NVEQF/AUTO/ET/LIV

CERTIFICATE LEVEL- IV

| S.NO | VOCATIONAL CONTENT (DETAIL CONTENT AT L All Vocational Ed Auto) | HRS. | S.NO | GENERAL CONTENT | HRS. |
|------|--|------|------|---|------|
| 1. | MUV/SUV/LCV: DISMANTLING FROM VEHICLE | 150 | | SUBJECT OF STUDIES I&II TWO LANGUAGES OUT OF FOLLOWING HINDI, ENGLISH, ASSAMESE, BENGALI, GUJRATI, KASHMIRI, KANNADA, MARATHI, MALYALAM, MANIPURI, ORIYA, PUNJABI, SINDHI, TAMIL, TELUGU, URDU, SANSKRIT, ARABIC, PERSIAN, LIMBOO, LEPCHA, BHUTIA, MIZO, TANGKHUL, BODO, NEPALI, TIBETAN, FRENCH, GERMAN, PORTUGUESE, RUSSIAN AND SPANISH. (DETAIL CONTENT AT L_4_Language) LANGUAGE I | 120 |
| | | | 1. | LANGUAGE II | 120 |
| 2. | ALT FUELS: ENGINE PERIPHERALS LIKE- HVAC, ALTERNATOR,VACUUM PUMP,STEERING PUMP, AIR INTAKE SYSTEM, EXHAUST SYSTEM, COOLING SYSTEM, CATCON/OXYCAT | 100 | | ANY THREE PAPERS OUT OF FOLLOWING (DETAIL CONTENT AT L_4_General_Ed_Science_Stream) | |
| 3. | ENGINE CONTROLS: FUEL INJ EQPT, SENSORS | 100 | | MATHEMATICS | 150 |
| | | | | PHYSICS | 150 |
| | | | | CHEMISTRY | 150 |
| | | | | BIOLOGY | 150 |
| | | | | BIOTECHNOLOGY | 150 |
| | | | | ENGINEERING GRAPHICS | 150 |

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|--|--------------------------|------------|-------------------------------|------------|
| | | | AGRICULTURE | 150 |
| | | | COMPUTER SCIENCE | 150 |
| | | | INFORMATICS PRACTICES | 150 |
| | | | MULITMEDIA AND WEB TECHNOLOGY | 150 |
| | TOTAL VOC CONTENT | 350 | TOTAL GENERAL CONTENT | 690 |
| | GRAND TOTAL | | 1040 HRS. | |

SPECIALIZATION: ENGINE TESTING: NVEQF/AUTO/ET/LV

CERTIFICATE LEVEL- V

| S.NO | VOCATIONAL CONTENT (DETAIL CONTENT AT L All Vocational Ed Auto) | HRS. | S.NO | GENERAL CONTENT | HRS. |
|-------------|---|-------------|-------------|--|-------------|
| 1. | HCV: DISMANTLING FROM VEHICLE, ENGINE STRIPPING, REASSY, REMOUNTING ON VEHICLE, ENGINE PERIPHERALS LIKE HVAC, ALTERNATOR, VACUUM PUMP, STEERING PUMP, AIR INTAKE SYSTEM | 200 | | ANY THREE PAPERS OUT OF FOLLOWING (DETAIL CONTENT AT L_5_General_Ed_Science_Stream) | |
| 2. | HCV:EXHAUST SYSTEM, COOLING SYSTEM ,OXYCAT EGR TURBO CHARGER | 150 | | MATHEMATICS | 180 |
| 3. | HCV: ENGINE CONTROLS, FUEL INJ EQPT, SENSORS | 150 | | PHYSICS | 180 |
| | | | | CHEMISTRY | 180 |
| | | | | COMPUTER SCIENCE | 180 |
| | | | | APPLIED STATISTICS | 180 |
| | | | | BOTANY | 180 |
| | | | | ZOOLOGY | 180 |
| | | | | BIOCHEMISTRY | 180 |
| | | | | MICROBIOLOGY | 180 |
| | | | | ELECTRONICS | 180 |
| | TOTAL VOC CONTENT | 500 | | TOTAL GENERAL CONTENT | 540 |
| | GRAND TOTAL | | | 1040 HRS. | |

SPECIALIZATION: ENGINE TESTING: NVEQF/AUTO/ET/LVI

CERTIFICATE LEVEL- VI

| S.NO | VOCATIONAL CONTENT (DETAIL CONTENT AT L All Vocational Ed Auto) | HRS. | S.NO | GENERAL CONTENT | HRS. |
|-------------|--|-------------|-------------|--|-------------|
| 1. | ENGINE TESTING: MOUNTING ON DYNAMOMETER | 50 | | ANY TWO PAPERS OUT OF FOLLOWING (DETAIL CONTENT AT L_6_General_Ed_Science_Stream) | |
| 2. | ALL TYPES OF ENGINES: TEST BENCH/DYNO/CONTROLS | 50 | | MATHEMATICS | 250 |
| 3. | GEN PERFORMANCE TESTS | 50 | | PHYSICS | 250 |
| 4. | GEN DURABILITY TESTS | 150 | | CHEMISTRY | 250 |
| 5. | GEN INSTRUMENTATION | 75 | | COMPUTER SCIENCE | 250 |
| 6. | DATA COLLECTION/ TRANSFER | 75 | | APPLIED STATISTICS | 250 |
| 7. | TROUBLE SHOOTING, | 50 | | BOTANY | 250 |
| 8. | DIAGNOSTICS | 50 | | ZOOLOGY | 250 |
| | | | | BIOCHEMISTRY | 250 |
| | | | | MICROBIOLOGY | 250 |
| | | | | ELECTRONICS | 250 |
| | TOTAL VOC CONTENT | 550 | | TOTAL GENERAL CONTENT | 500 |
| | GRAND TOTAL | | | 1050 HRS. | |

SPECIALIZATION: ENGINE TESTING: NVEQF/AUTO/ET/LVII

CERTIFICATE LEVEL- VII

| S.NO | VOCATIONAL CONTENT (DETAIL CONTENT AT L_All_Vocational_Ed_Auto) | HRS. | S.NO | GENERAL CONTENT | HRS. |
|-------------|---|-------------|-------------|---|-------------|
| 1. | ADVANCED ENGINE: INSTRUMENTATION- | 100 | | ANY ONE PAPER OUT OF FOLLOWING (DETAIL CONTENT AT L_7_General_Ed_Science_Stream) | |
| 2. | TESTING AND: DATA ACQUISITION EQPT | 100 | | MATHEMATICS | 300 |
| 3. | VALIDATION: SIMULATION TESTS, SPECIAL TESTS, DATA COLLECTION, TRANSIENT ANALYSIS | 550 | | PHYSICS | 300 |
| | | | | CHEMISTRY | 300 |
| | | | | COMPUTER SCIENCE | 300 |
| | | | | APPLIED STATISTICS | 300 |
| | | | | BOTANY | 300 |
| | | | | ZOOLOGY | 300 |
| | | | | BIOCHEMISTRY | 300 |
| | | | | MICROBIOLOGY | 300 |
| | | | | ELECTRONICS | 300 |
| | TOTAL VOC CONTENT | 750 | | TOTAL GENERAL CONTENT | 300 |
| | GRAND TOTAL | | | 1050 HRS. | |

NATIONAL VOCATIONAL EDUCATIONAL QUALIFICATION FRAMEWORK (NVEQF)

SECTOR: AUTOMOBILES

SPECIALIZATION: VEHICLE TESTING : NVEQF/AUTO/VT/LI

CERTIFICATE LEVEL- I

| S.NO | VOCATIONAL CONTENT (DETAIL CONTENT AT L All Vocational Ed Auto) | HRS. | S.NO | GENERAL CONTENT | HRS. |
|-------------|---|-------------|-------------|---|-------------|
| 1. | TOOLS: USAGE | 10 | | SUBJECT OF STUDIES THE LANGUAGES WILL BE FROM THE FOLLOWING WITH THE FOLLOWING STRUCTURE (ANY TWO) HINDI, ENGLISH, ASSAMESE, BENGALI, GUJRATI, KANNADA, KASHMIRI, MARATHI, MALAYALAM, MANIPURI, ORIYA, PUNJABI, SINDHI, TAMIL, TELUGU, URDU, LEPCHA, LIMBU, BHUTIA, SANSKRIT, ARABIC, PERSIAN, FRENCH, GERMAN, PORTUGUESE, RUSSIAN, SPANISH, NEPALI, TIBETAN AND MIZO, TANGKHUL AND BODO. 1. (DETAIL CONTENT AT L_1_Language) 2. LANGUAGE I LANGUAGE II | 140 140 |
| 2. | LIGHT 4W VEHS :DISMANTLING OF VEH PERIPHERALS PASS CARS A/B SEG : ASSY OF VEHICLE PERIPHERALS | 100 | 3. | MATHEMATICS (DETAIL CONTENT AT L_1_General_Ed) | 140 |
| 3. | GEN VEH SERVICE: ROUTINE MAINT CHECKS | 90 | 4. | SCIENCE (DETAIL CONTENT AT L_1_General_Ed) | 180 |
| | | | 5. | SOCIAL SCIENCE (DETAIL CONTENT AT L_1_General_Ed) | 180 |
| | TOTAL VOC CONTENT | 200 | | TOTAL GENERAL CONTENT | 780 |
| | GRAND TOTAL | | | 980 HRS. | |

SPECIALIZATION: VEHICLE TESTING : NVEQF/AUTO/VT/LII

CERTIFICATE LEVEL- II

| S.NO | VOCATIONAL CONTENT (DETAIL CONTENT AT L All Vocational Ed Auto) | HRS. | S.NO | GENERAL CONTENT | HRS. |
|-------------|--|-------------|-------------|--|-------------|
| 1. | TOOLS : USAGE | 10 | | SUBJECT OF STUDIES THE LANGUAGES WILL BE FROM THE FOLLOWING WITH THE FOLLOWING STRUCTURE (ANY TWO) HINDI, ENGLISH, ASSAMESE, BENGALI, GUJRATI, KANNADA, KASHMIRI, MARATHI, MALAYALAM, MANIPURI, ORIYA, PUNJABI, SINDHI, TAMIL, TELUGU, URDU, LEPCHA, LIMBU, BHUTIA, SANSKRIT, ARABIC, PERSIAN, FRENCH, GERMAN, PORTUGUESE, RUSSIAN, SPANISH, NEPALI, TIBETAN AND MIZO, TANGKHUL AND BODO. (DETAIL CONTENT AT L_2_Language) | |
| | | | 1. | LANGUAGE I | 140 |
| | | | 2. | LANGUAGE II | 140 |
| 2. | MUV/LCV/SUV : DISMANTLING OF VEH PERIPHERALS, RE ASSY ON VEHICLE | 140 | 3. | MATHEMATICS (DETAIL CONTENT AT L_2_General_Ed) | 140 |
| 3. | GEN VEH SERVICE : ROUTINE MAINTENANCE CHECKS | 100 | 4. | SCIENCE (DETAIL CONTENT AT L_2_General_Ed) | 180 |
| | | | 5. | SOCIAL SCIENCE (DETAIL CONTENT AT L_2_General_Ed) | 180 |
| | TOTAL VOC CONTENT | 250 | | TOTAL GENERAL CONTENT | 780 |
| | GRAND TOTAL | | | 1030 HRS. | |

SPECIALIZATION: VEHICLE TESTING : NVEQF/AUTO/VT/LIIE

CERTIFICATE LEVEL- III

| S.NO | VOCATIONAL CONTENT (DETAIL CONTENT AT L All Vocational Ed Auto) | HRS. | S.NO | GENERAL CONTENT | HRS. |
|------|---|------|------|---|------------|
| 1. | TOOLS: USAGE | 20 | | SUBJECT OF STUDIES I&II TWO LANGUAGES OUT OF FOLLOWING HINDI, ENGLISH, ASSAMESE, BENGALI, GUJRATI, KASHMIRI, KANNADA, MARATHI, MALYALAM, MANIPURI, ORIYA, PUNJABI, SINDHI, TAMIL, TELUGU, URDU, SANSKRIT, ARABIC, PERSIAN, LIMBOO, LEPCHA, BHUTIA, MIZO, TANGKHUL, BODO, NEPALI, TIBETAN, FRENCH, GERMAN, PORTUGUESE, RUSSIAN AND SPANISH. (DETAIL CONTENT AT L_3_Language) | 120 120 |
| 2. | MCV/HCV : DISMANTLING OF VEH PERIPHERALS, RE ASSY ON VEHICLE | 180 | | ANY THREE PAPERS OUT OF FOLLOWING (DETAIL CONTENT AT L_3_General_Ed_Science_Stream) | |
| 3. | GEN VEH SERVICE : ROUTINE MAINTENANCE CHECKS | 150 | | MATHEMATICS | 150 |
| | | | | PHYSICS | 150 |
| | | | | CHEMISTRY | 150 |
| | | | | BIOLOGY | 150 |
| | | | | BIOTECHNOLOGY | 150 |
| | | | | ENGINEERING GRAPHICS | 150 |
| | | | | AGRICULTURE | 150 |
| | | | | COMPUTER SCIENCE | 150 |

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|--|--------------------------|------------|-------------------------------|------------|
| | | | INFORMATICS PRACTICES | 150 |
| | | | MULITMEDIA AND WEB TECHNOLOGY | 150 |
| | TOTAL VOC CONTENT | 350 | TOTAL GENERAL CONTENT | 690 |
| | GRAND TOTAL | | 1040 HRS. | |

SPECIALIZATION: VEHICLE TESTING : NVEQF/AUTO/VT/LIV

CERTIFICATE LEVEL- IV

| S.NO | VOCATIONAL CONTENT (DETAIL CONTENT AT L All Vocational Ed Auto) | HRS. | S.NO | GENERAL CONTENT | HRS. |
|------|---|------|------|--|------|
| 1. | MUV/SUV/LCV : BASIC DRIVING SKILLS PASS CARS : DRIVING REQUIREMENTS - CRITICAL SITUATIONS, GENERAL DURABILITY TESTING, | 150 | | SUBJECT OF STUDIES I&II TWO LANGUAGES OUT OF FOLLOWING HINDI, ENGLISH, ASSAMESE, BENGALI, GUJRATI, KASHMIRI, KANNADA, MARATHI, MALLYALAM, MANIPURI, ORIYA, PUNJABI, SINDHI, TAMIL, TELUGU, URDU, SANSKRIT, ARABIC, PERSIAN, LIMBOO, LEPCHA, BHUTIA, MIZO, TANGKHUL, BODO, NEPALI, TIBETAN, FRENCH, GERMAN, PORTUGUESE, RUSSIAN AND SPANISH. (DETAIL CONTENT AT L_4_Language) LANGUAGE I | 120 |
| | | | 1. | LANGUAGE II | 120 |
| 2. | PERFORMANCE TESTING, ACCELERATED DURABILITY TESTING ON TRACKS | 200 | | ANY THREE PAPERS OUT OF FOLLOWING (DETAIL CONTENT AT L_4_General_Ed_Science_Stream) | |
| | | | | MATHEMATICS | 150 |
| | | | | PHYSICS | 150 |
| | | | | CHEMISTRY | 150 |
| | | | | BIOLOGY | 150 |
| | | | | BIOTECHNOLOGY | 150 |
| | | | | ENGINEERING GRAPHICS | 150 |
| | | | | AGRICULTURE | 150 |
| | | | | COMPUTER SCIENCE | 150 |

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|--|--------------------------|------------|-------------------------------|------------|
| | | | INFORMATICS PRACTICES | 150 |
| | | | MULITMEDIA AND WEB TECHNOLOGY | 150 |
| | TOTAL VOC CONTENT | 350 | TOTAL GENERAL CONTENT | 690 |
| | GRAND TOTAL | | 1040 HRS. | |

SPECIALIZATION: VEHICLE TESTING : NVEQF/AUTO/VT/LV

CERTIFICATE LEVEL- V

| S.NO | VOCATIONAL CONTENT (DETAIL CONTENT AT L All Vocational Ed Auto) | HRS. | S.NO | GENERAL CONTENT | HRS. |
|-------------|--|-------------|-------------|--|-------------|
| 1. | ALL CV: BASIC DRIVING SKILLS, DRIVING REQUIREMENTS - CRITICAL SITUATIONS, | 200 | | ANY THREE PAPERS OUT OF FOLLOWING (DETAIL CONTENT AT L_5_General_Ed_Science_Stream) | |
| 2. | GENERAL DURABILITY TESTING, PERFORMANCE TESTING, ACCELERATED DURABILITY TESTING ON TRACKS, | 300 | | MATHEMATICS | 180 |
| | | | | PHYSICS | 180 |
| | | | | CHEMISTRY | 180 |
| | | | | COMPUTER SCIENCE | 180 |
| | | | | APPLIED STATISTICS | 180 |
| | | | | BOTANY | 180 |
| | | | | ZOOLOGY | 180 |
| | | | | BIOCHEMISTRY | 180 |
| | | | | MICROBIOLOGY | 180 |
| | | | | ELECTRONICS | 180 |
| | TOTAL VOC CONTENT | 500 | | TOTAL GENERAL CONTENT | 540 |
| | GRAND TOTAL | | | 1040 HRS. | |

SPECIALIZATION: VEHICLE TESTING: NVEQF/AUTO/VT/LVI

CERTIFICATE LEVEL- VI

| S.NO | VOCATIONAL CONTENT (DETAIL CONTENT AT L All Vocational Ed Auto) | HRS. | S.NO | GENERAL CONTENT | HRS. |
|-------------|---|-------------|-------------|--|-------------|
| 1. | SPECIFIC TESTING AND EQUIPMENT: CHASSIS DYNAMOMETER BRAKE TESTING DYNO | 250 | | ANY TWO PAPERS OUT OF FOLLOWING (DETAIL CONTENT AT L_6_General_Ed_Science_Stream) | |
| 2. | SPECIFIC TESTING AND VALIDATION : EMISSIONS FUEL EFFICIENCY | 300 | | MATHEMATICS | 250 |
| | | | | PHYSICS | 250 |
| | | | | CHEMISTRY | 250 |
| | | | | COMPUTER SCIENCE | 250 |
| | | | | APPLIED STATISTICS | 250 |
| | | | | BOTANY | 250 |
| | | | | ZOOLOGY | 250 |
| | | | | BIOCHEMISTRY | 250 |
| | | | | MICROBIOLOGY | 250 |
| | | | | ELECTRONICS | 250 |
| | TOTAL VOC CONTENT | 550 | | TOTAL GENERAL CONTENT | 500 |
| | GRAND TOTAL | | | 1050 HRS. | |

SPECIALIZATION: VEHICLE TESTING : NVEQF/AUTO/VT/LVII

CERTIFICATE LEVEL- VII

| S.NO | VOCATIONAL CONTENT (DETAIL CONTENT AT L_All_Vocational_Ed_Auto) | HRS. | S.NO | GENERAL CONTENT | HRS. |
|-------------|--|-------------|-------------|---|-------------|
| 1. | ADVANCED SKILLS : INSTRUMENTATION, ALL VEHICLES | 400 | | ANY ONE PAPER OUT OF FOLLOWING (DETAIL CONTENT AT L_7_General_Ed_Science_Stream) | |
| 2. | DYNAMIC EVALUATION : ASSESSMENT | 350 | | MATHEMATICS | 300 |
| | | | | PHYSICS | 300 |
| | | | | CHEMISTRY | 300 |
| | | | | COMPUTER SCIENCE | 300 |
| | | | | APPLIED STATISTICS | 300 |
| | | | | BOTANY | 300 |
| | | | | ZOOLOGY | 300 |
| | | | | BIOCHEMISTRY | 300 |
| | | | | MICROBIOLOGY | 300 |
| | | | | ELECTRONICS | 300 |
| | TOTAL VOC CONTENT | 750 | | TOTAL GENERAL CONTENT | 300 |
| | GRAND TOTAL | | | 1050 HRS. | |

NATIONAL VOCATIONAL EDUCATIONAL QUALIFICATION FRAMEWORK (NVEQF)

SECTOR: AUTOMOBILES

SPECIALIZATION: VEHICLE QUALITY: NVEQF/AUTO/VQ/LI

CERTIFICATE LEVEL- I

| S.NO | VOCATIONAL CONTENT (DETAIL CONTENT AT L All Vocational Ed Auto) | HRS. | S.NO | GENERAL CONTENT | HRS. |
|-------------|--|-------------|-------------|--|-------------|
| 1. | WELDING TYPES / JOINTS, APPLICATION | 25 | | SUBJECT OF STUDIES THE LANGUAGES WILL BE FROM THE FOLLOWING WITH THE FOLLOWING STRUCTURE (ANY TWO) HINDI, ENGLISH, ASSAMESE, BENGALI, GUJRATI, KANNADA, KASHMIRI, MARATHI, MALAYALAM, MANIPURI, ORIYA, PUNJABI, SINDHI, TAMIL, TELUGU, URDU, LEPCHA, LIMBU, BHUTIA, SANSKRIT, ARABIC, PERSIAN, FRENCH, GERMAN, PORTUGUESE, RUSSIAN, SPANISH, NEPALI, TIBETAN AND MIZO, TANGKHUL AND BODO. (DETAIL CONTENT AT L_1_Language) | |
| | | | 1. | LANGUAGE I | 140 |
| | | | 2. | LANGUAGE II | 140 |
| 2. | ARC, MIG, TIG, WELDING EQUIPMENTS | 75 | 3. | MATHEMATICS (DETAIL CONTENT AT L_1_General_Ed) | 140 |
| 3. | GAS, BREZING, SOLDERING, PROCESS PARAMETERS | 50 | 4. | SCIENCE (DETAIL CONTENT AT L_1_General_Ed) | 180 |
| 4. | SPOT, SEAM: TYPES OF JOINTS, WELDING QUALIFICATION | 50 | 5. | SOCIAL SCIENCE (DETAIL CONTENT AT L_1_General_Ed) | 180 |
| | TOTAL VOC CONTENT | 200 | | TOTAL GENERAL CONTENT | 780 |
| | GRAND TOTAL | | | 980 HRS. | |

SPECIALIZATION: VEHICLE QUALITY: NVEQF/AUTO/VQ/LII

CERTIFICATE LEVEL- II

| S.NO | VOCATIONAL CONTENT (DETAIL CONTENT AT L All Vocational Ed Auto) | HRS. | S.NO | GENERAL CONTENT | HRS. |
|-------------|--|-------------|-------------|--|-------------|
| 1. | BODY IN WHITE: BASIC STRUCTURAL EXPOSURE, PRESS PARTS, HANDLING, | 60 | | SUBJECT OF STUDIES THE LANGUAGES WILL BE FROM THE FOLLOWING WITH THE FOLLOWING STRUCTURE (ANY TWO) HINDI, ENGLISH, ASSAMESE, BENGALI, GUJRATI, KANNADA, KASHMIRI, MARATHI, MALAYALAM, MANIPURI, ORIYA, PUNJABI, SINDHI, TAMIL, TELUGU, URDU, LEPCHA, LIMBU, BHUTIA, SANSKRIT, ARABIC, PERSIAN, FRENCH, GERMAN, PORTUGUESE, RUSSIAN, SPANISH, NEPALI, TIBETAN AND MIZO, TANGKHUL AND BODO. (DETAIL CONTENT AT L_2_Language) | |
| | | | 1. | LANGUAGE I | 140 |
| | | | 2. | LANGUAGE II | 140 |
| 2. | JOINERIES & REINFORCEMENTS, | 70 | 3. | MATHEMATICS (DETAIL CONTENT AT L_2_General_Ed) | 140 |
| 3. | WELDING PROCESS FOR ALL JOINTS, | 50 | 4. | SCIENCE (DETAIL CONTENT AT L_2_General_Ed) | 180 |
| 4. | FIXTURES | 50 | 5. | SOCIAL SCIENCE (DETAIL CONTENT AT L_2_General_Ed) | 180 |
| 5. | SEALANTS | 20 | | | |
| | TOTAL VOC CONTENT | 250 | | TOTAL GENERAL CONTENT | 780 |
| | GRAND TOTAL | | | 1030 HRS. | |

SPECIALIZATION: VEHICLE QUALITY: NVEQF/AUTO/VQ/LIHI

CERTIFICATE LEVEL- III

| S.NO | VOCATIONAL CONTENT (DETAIL CONTENT AT L All Vocational Ed Auto) | HRS. | S.NO | GENERAL CONTENT | HRS. |
|------|---|------|------|---|------------|
| 1. | BODY WORKS: TOOLS, | 20 | | SUBJECT OF STUDIES I&II TWO LANGUAGES OUT OF FOLLOWING HINDI, ENGLISH, ASSAMESE, BENGALI, GUJRATI, KASHMIRI, KANNADA, MARATHI, MALYALAM, MANIPURI, ORIYA, PUNJABI, SINDHI, TAMIL, TELUGU, URDU, SANSKRIT, ARABIC, PERSIAN, LIMBOO, LEPCHA, BHUTIA, MIZO, TANGKHUL, BODO, NEPALI, TIBETAN, FRENCH, GERMAN, PORTUGUESE, RUSSIAN AND SPANISH. (DETAIL CONTENT AT L_3_Language) | 120 120 |
| | | | 1. | LANGUAGE I | |
| | | | 2. | LANGUAGE II | |
| 2. | DAMAGE MODES - DENTS, ACCIDENTS, | 30 | | ANY THREE PAPERS OUT OF FOLLOWING (DETAIL CONTENT AT L_3_General Ed_Science_Stream) | |
| 3. | RECTIFICATION ALTERNATIVES REPLACEMENT , DENTING & FINISHING , | 100 | | MATHEMATICS | 150 |
| 4. | SURFACE PREPARATION & PROCESS, SURFACE PROTECTION, | 125 | | PHYSICS | 150 |
| 5. | ALIGNMENTS & MEASUREMENTS, GAPS & FLUSHNESS | 75 | | CHEMISTRY | 150 |
| | | | | BIOLOGY | 150 |
| | | | | BIOTECHNOLOGY | 150 |
| | | | | ENGINEERING GRAPHICS | 150 |
| | | | | AGRICULTURE | 150 |

| | | | | |
|--|--------------------------|------------|-------------------------------|------------|
| | | | COMPUTER SCIENCE | 150 |
| | | | INFORMATICS PRACTICES | 150 |
| | | | MULITMEDIA AND WEB TECHNOLOGY | 150 |
| | TOTAL VOC CONTENT | 350 | TOTAL GENERAL CONTENT | 690 |
| | GRAND TOTAL | | 1040 HRS. | |

SPECIALIZATION: VEHICLE QUALITY: NVEQF/AUTO/VQ/LIV

CERTIFICATE LEVEL- IV

| S.NO | VOCATIONAL CONTENT (DETAIL CONTENT AT L All Vocational Ed Auto) | HRS. | S.NO | GENERAL CONTENT | HRS. |
|-------------|--|-------------|-------------|--|-------------|
| 1. | TRIMS & ADD-ONS: EXPOSURE, | 30 | | SUBJECT OF STUDIES I&II TWO LANGUAGES OUT OF FOLLOWING HINDI, ENGLISH, ASSAMESE, BENGALI, GUJRATI, KASHMIRI, KANNADA, MARATHI, MALLYALAM, MANIPURI, ORIYA, PUNJABI, SINDHI, TAMIL, TELUGU, URDU, SANSKRIT, ARABIC, PERSIAN, LIMBOO, LEPCHA, BHUTIA, MIZO, TANGKHUL, BODO, NEPALI, TIBETAN, FRENCH, GERMAN, PORTUGUESE, RUSSIAN AND SPANISH. (DETAIL CONTENT AT L_4_Language) LANGUAGE I | 120 |
| | | | 1. | LANGUAGE II | 120 |
| 2. | SEATS, UPHOLSTRY & COMFORT, | 30 | | ANY THREE PAPERS OUT OF FOLLOWING (DETAIL CONTENT AT L_4 General Ed Science Stream) | |
| 3. | TRIM PANELS - | 30 | | MATHEMATICS | 150 |
| 4. | DOORS, WINDOW & SEALING, | 100 | | PHYSICS | 150 |
| 5. | DASH BOARD, INSTRUMENT PANEL, | 30 | | CHEMISTRY | 150 |
| 6. | ACOUSTIC & THERMAL INSULATION, | 30 | | BIOLOGY | 150 |
| 7. | SAFETY EQUIPMENTS, | 30 | | BIOTECHNOLOGY | 150 |
| 8. | NVH, | 35 | | ENGINEERING GRAPHICS | 150 |
| 9. | HVAC | 35 | | AGRICULTURE | 150 |
| | | | | COMPUTER SCIENCE | 150 |
| | | | | INFORMATICS PRACTICES | 150 |

| | | | | |
|--|--------------------------|------------|-------------------------------|------------|
| | | | MULITMEDIA AND WEB TECHNOLOGY | 150 |
| | TOTAL VOC CONTENT | 350 | TOTAL GENERAL CONTENT | 690 |
| | GRAND TOTAL | | 1040 HRS. | |

SPECIALIZATION: VEHICLE QUALITY: NVEQ/AUTO/VQ/LV

CERTIFICATE LEVEL- V

| S.NO | VOCATIONAL CONTENT (DETAIL CONTENT AT L All Vocational Ed Auto) | HRS. | S.NO | GENERAL CONTENT | HRS. |
|-------------|--|-------------|-------------|--|-------------|
| 1. | PAINTING & FINISHING: TOOLS & EQUIPMENTS, SURFACE PREPARATION, PAINTING PROCESS, COATINGS & SEALINGS, SURFACE TEXTURES, PLASTIC PARTS PAINTING | 350 | | ANY THREE PAPERS OUT OF FOLLOWING (DETAIL CONTENT AT L_5_General_Ed_Science_Stream) | |
| 2. | SURFACE PROTECTIVE: VARIOUS TYPES OF PLATINGS | 50 | | MATHEMATICS | 180 |
| 3. | COATING: POWDER COATING | 50 | | PHYSICS | 180 |
| 4. | LAB TESTING : LIFE, SCRATCH, GLOSS, CORROSION TESTING | 50 | | CHEMISTRY | 180 |
| | | | | COMPUTER SCIENCE | 180 |
| | | | | APPLIED STATISTICS | 180 |
| | | | | BOTANY | 180 |
| | | | | ZOOLOGY | 180 |
| | | | | BIOCHEMISTRY | 180 |
| | | | | MICROBIOLOGY | 180 |
| | | | | ELECTRONICS | 180 |
| | TOTAL VOC CONTENT | 500 | | TOTAL GENERAL CONTENT | 540 |
| | GRAND TOTAL | | | 1040 HRS. | |

SPECIALIZATION: VEHICLE QUALITY: NVEQF/AUTO/VQ/LVI

CERTIFICATE LEVEL- VI

| S.NO | VOCATIONAL CONTENT (DETAIL CONTENT AT L All Vocational Ed Auto) | HRS. | S.NO | GENERAL CONTENT | HRS. |
|-------------|--|-------------|-------------|--|-------------|
| 1. | METROLOGY: INSTRUMENTS – MEASURING, INSTRUMENTS – LAB, MEASUREMENT PARAMETERS, DRAWINGS & SPECIFICATIONS | 300 | | ANY TWO PAPERS OUT OF FOLLOWING (DETAIL CONTENT AT L_6_General_Ed_Science_Stream) | |
| 2. | STANDARD ROOM: EQUIPMENTS, CALIBRATION SYSTEM | 150 | | MATHEMATICS | 250 |
| 3. | CMM : OPERATIONS & MEASUREMENTS, SURFACE SCANNERS | 100 | | PHYSICS | 250 |
| | | | | CHEMISTRY | 250 |
| | | | | COMPUTER SCIENCE | 250 |
| | | | | APPLIED STATISTICS | 250 |
| | | | | BOTANY | 250 |
| | | | | ZOOLOGY | 250 |
| | | | | BIOCHEMISTRY | 250 |
| | | | | MICROBIOLOGY | 250 |
| | | | | ELECTRONICS | 250 |
| | TOTAL VOC CONTENT | 550 | | TOTAL GENERAL CONTENT | 500 |
| | GRAND TOTAL | | | 1050 HRS. | |

SPECIALIZATION: VEHICLE QUALITY: NVEQF/AUTO/VQ/LVII

CERTIFICATE LEVEL- VII

| S.NO | VOCATIONAL CONTENT (DETAIL CONTENT AT L All Vocational Ed Auto) | HRS. | S.NO | GENERAL CONTENT | HRS. |
|-------------|--|-------------|-------------|---|-------------|
| 1. | MATERIALS : INTRODUCTION | 100 | | ANY ONE PAPER OUT OF FOLLOWING (DETAIL CONTENT AT L 7 General Ed Science Stream) | |
| 2. | FERROUS AND NONFERROUS : PHYSICAL PROPERTIES | 100 | | MATHEMATICS | 300 |
| 3. | PLASTICS : MECHANICAL PROPERTIES | 150 | | PHYSICS | 300 |
| 4. | RUBBERS : HEAT TREATMENT PROCESS | 100 | | CHEMISTRY | 300 |
| 5. | GLASS : TESTING | 125 | | COMPUTER SCIENCE | 300 |
| 6. | COMPOSITES: APPLICATION, RECYCLABILITY, | 175 | | APPLIED STATISTICS | 300 |
| | | | | BOTANY | 300 |
| | | | | ZOOLOGY | 300 |
| | | | | BIOCHEMISTRY | 300 |
| | | | | MICROBIOLOGY | 300 |
| | | | | ELECTRONICS | 300 |
| | TOTAL VOC CONTENT | 750 | | TOTAL GENERAL CONTENT | 300 |
| | GRAND TOTAL | | | 1050 HRS. | |

NATIONAL VOCATIONAL EDUCATIONAL QUALIFICATION FRAMEWORK (NVEQF)
SECTOR: AUTOMOBILES

SPECIALIZATION: AUTO ELECTRICALS & ELECTRONICS : NVEQF/AUTO/AEE/LI

CERTIFICATE LEVEL- I

| S.NO | VOCATIONAL CONTENT (DETAIL CONTENT AT L All Vocational Ed Auto) | HRS. | S.NO | GENERAL CONTENT | HRS. |
|-------------|--|-------------|-------------|--|-------------|
| 1. | BASIC AUTO ELECTRICALS: BASIC INTRODUCTION / TOOLS | 25 | | SUBJECT OF STUDIES THE LANGUAGES WILL BE FROM THE FOLLOWING WITH THE FOLLOWING STRUCTURE (ANY TWO) HINDI, ENGLISH, ASSAMESE, BENGALI, GUJRATI, KANNADA, KASHMIRI, MARATHI, MALAYALAM, MANIPURI, ORIYA, PUNJABI, SINDHI, TAMIL, TELUGU, URDU, LEPCHA, LIMBU, BHUTIA, SANSKRIT, ARABIC, PERSIAN, FRENCH, GERMAN, PORTUGUESE, RUSSIAN, SPANISH, NEPALI, TIBETAN AND MIZO, TANGKHUL AND BODO. (DETAIL CONTENT AT L_1_Language) | |
| | | | 1. | LANGUAGE I | 140 |
| | | | 2. | LANGUAGE II | 140 |
| 2. | APPLICATION 2 & 3 WHEELERS :POWER SOURCE, WIRING & CONNECTORS, | 75 | 3. | MATHEMATICS (DETAIL CONTENT AT L_1_General_Ed) | 140 |
| 3. | WIRING DIAGRAMS, LIGHTING SYSTEMS, | 50 | 4. | SCIENCE (DETAIL CONTENT AT L_1_General_Ed) | 180 |
| 4. | SIGNALS & ALARMS, ROUTING & CLAMPING | 50 | 5. | SOCIAL SCIENCE (DETAIL CONTENT AT L_1_General_Ed) | 180 |
| | TOTAL VOC CONTENT | 200 | | TOTAL GENERAL CONTENT | 780 |
| | GRAND TOTAL | | | 980 HRS. | |

SPECIALIZATION: AUTO ELECTRICALS & ELECTRONICS : NVEQF/AUTO/AEE/LII

CERTIFICATE LEVEL- II

| S.NO | VOCATIONAL CONTENT (DETAIL CONTENT AT L All Vocational Ed Auto) | HRS. | S.NO | GENERAL CONTENT | HRS. |
|-------------|---|-------------|-------------|--|-------------|
| 1. | BASIC AUTO ELECTRICALS: BASIC INTRODUCTION / TOOLS | 40 | | SUBJECT OF STUDIES THE LANGUAGES WILL BE FROM THE FOLLOWING WITH THE FOLLOWING STRUCTURE (ANY TWO) HINDI, ENGLISH, ASSAMESE, BENGALI, GUJRATI, KANNADA, KASHMIRI, MARATHI, MALAYALAM, MANIPURI, ORIYA, PUNJABI, SINDHI, TAMIL, TELUGU, URDU, LEPCHA, LIMBU, BHUTIA, SANSKRIT, ARABIC, PERSIAN, FRENCH, GERMAN, PORTUGUESE, RUSSIAN, SPANISH, NEPALI, TIBETAN AND MIZO, TANGKHUL AND BODO. (DETAIL CONTENT AT L_2_Language) | |
| | | | 1. | LANGUAGE I | 140 |
| | | | 2. | LANGUAGE II | 140 |
| 2. | APPLICATION: 4WHEELER : POWER SOURCE, WIRING & CONNECTORS, WIRING DIAGRAMS, LIGHTING SYSTEMS, SIGNALS & ALARMS, ROUTING & CLAMPING, WIPERS & WINDOW WINDERS, AC, MUSIC SYSTEM | 210 | 3. | MATHEMATICS (DETAIL CONTENT AT L_2_General_Ed) | 140 |
| | | | 4. | SCIENCE (DETAIL CONTENT AT L_2_General_Ed) | 180 |
| | | | 5. | SOCIAL SCIENCE (DETAIL CONTENT AT L_2_General_Ed) | 180 |
| | TOTAL VOC CONTENT | 250 | | TOTAL GENERAL CONTENT | 780 |
| | GRAND TOTAL | | | 1030 HRS. | |

SPECIALIZATION: AUTO ELECTRICALS & ELECTRONICS : NVEQF/AUTO/AEE/LIII

CERTIFICATE LEVEL- III

| S.NO | VOCATIONAL CONTENT (DETAIL CONTENT AT L_All_Vocational_Ed_Auto) | HRS. | S.NO | GENERAL CONTENT | HRS. |
|-------------|--|-------------|-------------|---|-------------|
| 1. | BASIC AUTO ELECTRICALS : BASIC INTRODUCTION / TOOLS | 50 | 1. 2. | SUBJECT OF STUDIES I&II TWO LANGUAGES OUT OF FOLLOWING HINDI, ENGLISH, ASSAMESE, BENGALI, GUJRATI, KASHMIRI, KANNADA, MARATHI, MALYALAM, MANIPURI, ORIYA, PUNJABI, SINDHI, TAMIL, TELUGU, URDU, SANSKRIT, ARABIC, PERSIAN, LIMBOO, LEPCHA, BHUTIA, MIZO, TANGKHUL, BODO, NEPALI, TIBETAN, FRENCH, GERMAN, PORTUGUESE, RUSSIAN AND SPANISH. (DETAIL CONTENT AT L_3_Language) LANGUAGE I LANGUAGE II | 120 120 |
| 2. | APPLICATION : CV : POWER SOURCE, WIRING & CONNECTORS, WIRING DIAGRAMS, LIGHTING SYSTEMS, SIGNALS & ALARMS, ROUTING & CLAMPING, WIPERS & WINDOW WINDERS, AC, MUSIC SYSTEM, BASIC ELECTRONICS | 300 | | ANY THREE PAPERS OUT OF FOLLOWING (DETAIL CONTENT AT L_3_General_Ed_Science_Stream) | |
| | | | | MATHEMATICS | 150 |
| | | | | PHYSICS | 150 |
| | | | | CHEMISTRY | 150 |
| | | | | BIOLOGY | 150 |

| | | | | |
|--|--------------------------|------------|-------------------------------|------------|
| | | | BIOTECHNOLOGY | 150 |
| | | | ENGINEERING GRAPHICS | 150 |
| | | | AGRICULTURE | 150 |
| | | | COMPUTER SCIENCE | 150 |
| | | | INFORMATICS PRACTICES | 150 |
| | | | MULITMEDIA AND WEB TECHNOLOGY | 150 |
| | TOTAL VOC CONTENT | 350 | TOTAL GENERAL CONTENT | 690 |
| | GRAND TOTAL | | 1040 HRS. | |

SPECIALIZATION: AUTO ELECTRICALS & ELECTRONICS : NVEQF/AUTO/AEE/LIV

CERTIFICATE LEVEL- IV

| S.NO | VOCATIONAL CONTENT (DETAIL CONTENT AT L All Vocational Ed Auto) | HRS. | S.NO | GENERAL CONTENT | HRS. |
|-------------|---|-------------|-------------|--|-------------|
| 1. | AUTO ELECTRONICS: BASICS, SENSORS, WIRINGS, INSTALLATIONS, ECU, DIAGNOSTICS, SETTINGS, CALIBRATION, SERVICE /SPARES, INSTRUMENT CLUSTER | 350 | | SUBJECT OF STUDIES I&II TWO LANGUAGES OUT OF FOLLOWING HINDI, ENGLISH, ASSAMESE, BENGALI, GUJRATI, KASHMIRI, KANNADA, MARATHI, MALLYALAM, MANIPURI, ORIYA, PUNJABI, SINDHI, TAMIL, TELUGU, URDU, SANSKRIT, ARABIC, PERSIAN, LIMBOO, LEPCHA, BHUTIA, MIZO, TANGKHUL, BODO, NEPALI, TIBETAN, FRENCH, GERMAN, PORTUGUESE, RUSSIAN AND SPANISH. (DETAIL CONTENT AT L_4_Language) | |
| | | | 1. | LANGUAGE I | 120 |
| | | | 2. | LANGUAGE II | 120 |
| | | | | ANY THREE PAPERS OUT OF FOLLOWING (DETAIL CONTENT AT L_4_General_Ed_Science_Stream) | |
| | | | | MATHEMATICS | 150 |
| | | | | PHYSICS | 150 |
| | | | | CHEMISTRY | 150 |
| | | | | BIOLOGY | 150 |
| | | | | BIOTECHNOLOGY | 150 |
| | | | | ENGINEERING GRAPHICS | 150 |
| | | | | AGRICULTURE | 150 |
| | | | | COMPUTER SCIENCE | 150 |
| | | | | INFORMATICS PRACTICES | 150 |
| | | | | MULITMEDIA AND WEB TECHNOLOGY | 150 |

| | | | | | |
|--|--------------------------|------------|--|------------------------------|------------|
| | | | | | |
| | TOTAL VOC CONTENT | 350 | | TOTAL GENERAL CONTENT | 690 |
| | GRAND TOTAL | | | 1040 HRS. | |

SPECIALIZATION: AUTO ELECTRICALS & ELECTRONICS : NVEQF/AUTO/AEE/LV

CERTIFICATE LEVEL- V

| S.NO | VOCATIONAL CONTENT (DETAIL CONTENT AT L All Vocational Ed Auto) | HRS. | S.NO | GENERAL CONTENT | HRS. |
|-------------|--|-------------|-------------|--|-------------|
| 1. | ECU TECHNOLOGY: BASICS, PROGRAMMING, MAPPING, FLASHING, DIAGNOSTICS | 500 | | ANY THREE PAPERS OUT OF FOLLOWING (DETAIL CONTENT AT L_5_General_Ed_Science_Stream) | |
| | | | | MATHEMATICS | 180 |
| | | | | PHYSICS | 180 |
| | | | | CHEMISTRY | 180 |
| | | | | COMPUTER SCIENCE | 180 |
| | | | | APPLIED STATISTICS | 180 |
| | | | | BOTANY | 180 |
| | | | | ZOOLOGY | 180 |
| | | | | BIOCHEMISTRY | 180 |
| | | | | MICROBIOLOGY | 180 |
| | | | | ELECTRONICS | 180 |
| | TOTAL VOC CONTENT | 500 | | TOTAL GENERAL CONTENT | 540 |
| | GRAND TOTAL | | | 1040 HRS. | |

SPECIALIZATION: AUTO ELECTRICALS & ELECTRONICS : NVEQF/AUTO/AEE/LVI

CERTIFICATE LEVEL- VI

| S.NO | VOCATIONAL CONTENT (DETAIL CONTENT AT L All Vocational Ed Auto) | HRS. | S.NO | GENERAL CONTENT | HRS. |
|-------------|--|-------------|-------------|--|-------------|
| 1. | ADVANCE ELECTRONICS I: CAN BUS SYSTEM, IMMOBILISER SYSTEM, INTEGRATION OF ALL ECU, DIAGNOSTICS, ACCESSORIES - MOBILE, WI-FI, GPS ETC, SAFETY SYSTEMS | 550 | | ANY TWO PAPERS OUT OF FOLLOWING (DETAIL CONTENT AT L_6_General_Ed_Science_Stream) | |
| | | | | MATHEMATICS | 250 |
| | | | | PHYSICS | 250 |
| | | | | CHEMISTRY | 250 |
| | | | | COMPUTER SCIENCE | 250 |
| | | | | APPLIED STATISTICS | 250 |
| | | | | BOTANY | 250 |
| | | | | ZOOLOGY | 250 |
| | | | | BIOCHEMISTRY | 250 |
| | | | | MICROBIOLOGY | 250 |
| | | | | ELECTRONICS | 250 |
| | TOTAL VOC CONTENT | 550 | | TOTAL GENERAL CONTENT | 500 |
| | GRAND TOTAL | | | 1050 HRS. | |

SPECIALIZATION: AUTO ELECTRICALS & ELECTRONICS : NVEQF/AUTO/AEE/LVII

CERTIFICATE LEVEL- VII

| S.NO | VOCATIONAL CONTENT (DETAIL CONTENT AT L All Vocational Ed Auto) | HRS. | S.NO | GENERAL CONTENT | HRS. |
|-------------|---|-------------|-------------|---|-------------|
| 1. | ADVANCE ELECTRONICS II: CAN BUS SYSTEM, INTEGRATION OF ALL ECU, DIAGNOSTICS, SAFETY SYSTEMS, CRASH SYSTEM, ELECTRONIC STABILITY CONTROLLING SYSTEMS, INFORMATICS | 750 | | ANY ONE PAPER OUT OF FOLLOWING (DETAIL CONTENT AT L_7_General_Ed_Science_Stream) | |
| | | | | MATHEMATICS | 300 |
| | | | | PHYSICS | 300 |
| | | | | CHEMISTRY | 300 |
| | | | | COMPUTER SCIENCE | 300 |
| | | | | APPLIED STATISTICS | 300 |
| | | | | BOTANY | 300 |
| | | | | ZOOLOGY | 300 |
| | | | | BIOCHEMISTRY | 300 |
| | | | | MICROBIOLOGY | 300 |
| | | | | ELECTRONICS | 300 |
| | TOTAL VOC CONTENT | 750 | | TOTAL GENERAL CONTENT | 300 |
| 2. | GRAND TOTAL | | | 1050 HRS. | |

NATIONAL VOCATIONAL EDUCATIONAL QUALIFICATION FRAMEWORK (NVEQF)

SECTOR: AUTOMOBILES

SPECIALIZATION: FARM EQUIPMENT & MACHINERY: NVEQF/AUTO/FEM/LI

CERTIFICATE LEVEL- I

| S.NO | VOCATIONAL CONTENT (DETAIL CONTENT AT L All Vocational Ed Auto) | HRS. | S.NO | GENERAL CONTENT | HRS. |
|-------------|---|-------------|-------------|---|-------------|
| 1. | FARM TRACTOR (15HP TO 60HP) : TOOLS USAGE, PERIPHERALS DISMANTLING, PERIPHERALS ASSEMBLING, ROUTINE SERVICE & REPAIRS, HYDRAULICS, IMPLEMENTS, ELECTRICALS | 200 | | SUBJECT OF STUDIES THE LANGUAGES WILL BE FROM THE FOLLOWING WITH THE FOLLOWING STRUCTURE (ANY TWO) HINDI, ENGLISH, ASSAMESE, BENGALI, GUJRATI, KANNADA, KASHMIRI, MARATHI, MALAYALAM, MANIPURI, ORIYA, PUNJABI, SINDHI, TAMIL, TELUGU, URDU, LEPCHA, LIMBU, BHUTIA, SANSKRIT, ARABIC, PERSIAN, FRENCH, GERMAN, PORTUGUESE, RUSSIAN, SPANISH, NEPALI, TIBETAN AND MIZO, TANGKHUL AND BODO. (DETAIL CONTENT AT L_1_Language) | |
| | | | 1. | LANGUAGE I | 140 |
| | | | 2. | LANGUAGE II | 140 |
| | | | 3. | MATHEMATICS (DETAIL CONTENT AT L_1_General_Ed) | 140 |
| | | | 4. | SCIENCE (DETAIL CONTENT AT L_1_General_Ed) | 180 |
| | | | 5. | SOCIAL SCIENCE (DETAIL CONTENT AT L_1_General_Ed) | 180 |
| | TOTAL VOC CONTENT | 200 | | TOTAL GENERAL CONTENT | 780 |
| | GRAND TOTAL | | | 980 HRS. | |

SPECIALIZATION: FARM EQUIPMENT & MACHINERY: NVEQF/AUTO/FEM/LII

CERTIFICATE LEVEL- II

| S.NO | VOCATIONAL CONTENT (DETAIL CONTENT AT L All Vocational Ed Auto) | HRS. | S.NO | GENERAL CONTENT | HRS. |
|-------------|--|-------------|-------------|--|-------------|
| 1. | FARM TRACTOR: TOOLS USAGE, PERIPHERALS DISMANTLING, PERIPHERALS ASSEMBLING, ROUTINE SERVICE & REPAIRS, HYDRAULICS, IMPLEMENTS, ELECTRICALS | 250 | | SUBJECT OF STUDIES THE LANGUAGES WILL BE FROM THE FOLLOWING WITH THE FOLLOWING STRUCTURE (ANY TWO) HINDI, ENGLISH, ASSAMESE, BENGALI, GUJRATI, KANNADA, KASHMIRI, MARATHI, MALAYALAM, MANIPURI, ORIYA, PUNJABI, SINDHI, TAMIL, TELUGU, URDU, LEPCHA, LIMBU, BHUTIA, SANSKRIT, ARABIC, PERSIAN, FRENCH, GERMAN, PORTUGUESE, RUSSIAN, SPANISH, NEPALI, TIBETAN AND MIZO, TANGKHUL AND BODO. (DETAIL CONTENT AT L_2_Language) | |
| | | | 1. | LANGUAGE I | 140 |
| | | | 2. | LANGUAGE II | 140 |
| | | | 3. | MATHEMATICS (DETAIL CONTENT AT L_2_General_Ed) | 140 |
| | | | 4. | SCIENCE (DETAIL CONTENT AT L_2_General_Ed) | 180 |
| | | | 5. | SOCIAL SCIENCE (DETAIL CONTENT AT L_2_General_Ed) | 180 |
| | TOTAL VOC CONTENT | 250 | | TOTAL GENERAL CONTENT | 780 |
| | GRAND TOTAL | | | 1030 HRS. | |

SPECIALIZATION: FARM EQUIPMENT & MACHINERY: NVEQF/AUTO/FEM/LIII

CERTIFICATE LEVEL- III

| S.N O | VOCATIONAL CONTENT (DETAIL CONTENT AT L All Vocational Ed Auto) | HRS . | S.N O | GENERAL CONTENT | HRS . |
|------------------|---|------------------|------------------|--|------------------|
| 1. | FARM TRACTOR: TOOLS ,TRACTOR DISMANTLING ,ENGINE STRIPPING, REASSEMBLY -ENGINE & T/M., TRACTOR ASSEMBLY, BRAKE SYSTEMS, STEERING SYSTEM, HYDRAULIC SYSTEM COMPLETE, CONTROLS & MECHANISM, FUEL SYSTEMS, COOLING, AIR INTAKE & EXHAUST | 350 | | SUBJECT OF STUDIES I&II TWO LANGUAGES OUT OF FOLLOWING HINDI, ENGLISH, ASSAMESE, BENGALI, GUJRATI, KASHMIRI, KANNADA, MARATHI, MALYALAM, MANIPURI, ORIYA, PUNJABI, SINDHI, TAMIL, TELUGU, URDU, SANSKRIT, ARABIC, PERSIAN, LIMBOO, LEPCHA, BHUTIA, MIZO, TANGKHUL, BODO, NEPALI, TIBETAN, FRENCH, GERMAN, PORTUGUESE, RUSSIAN AND SPANISH. (DETAIL CONTENT AT L_3_Language) | 120 |
| | | | 1. | LANGUAGE I | 120 |
| | | | 2. | LANGUAGE II | |
| | | | | ANY THREE PAPERS OUT OF FOLLOWING (DETAIL CONTENT AT L_3_General_Ed_Science_Stream) | |
| | | | | MATHEMATICS | 150 |
| | | | | PHYSICS | 150 |
| | | | | CHEMISTRY | 150 |
| | | | | BIOLOGY | 150 |
| | | | | BIOTECHNOLOGY | 150 |
| | | | | ENGINEERING GRAPHICS | 150 |
| | | | | AGRICULTURE | 150 |
| | | | | COMPUTER SCIENCE | 150 |
| | | | | INFORMATICS PRACTICES | 150 |

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|--|--------------------------|------------|--|-------------------------------|------------|
| | | | | | |
| | | | | MULITMEDIA AND WEB TECHNOLOGY | 150 |
| | TOTAL VOC CONTENT | 350 | | TOTAL GENERAL CONTENT | 690 |
| | GRAND TOTAL | | | 1040 HRS. | |

SPECIALIZATION: FARM EQUIPMENT & MACHINERY: NVEQF/AUTO/FEM/LIV

CERTIFICATE LEVEL- IV

| S.N O | VOCATIONAL CONTENT (DETAIL CONTENT AT L All Vocational Ed Auto) | HRS . | S.N O | GENERAL CONTENT | HRS . |
|------------------|--|------------------|------------------|--|------------------|
| 1. | FARM TRACTOR: TRACTOR DISMANTLING ,ENGINE STRIPPING, REASSEMBLY -ENGINE & T/M., TRACTOR ASSEMBLY, BRAKE SYSTEMS-COMPONENT LEVEL, STEERING SYSTEM-COMPONENT SYSTEM, HYDRAULIC SYSTEM COMPLETE, FUEL SYSTEMS-FIP, INJECTORS, IMPLEMENT-ATTACHMENT & OPERATION, FAULT FINDING & RECTIFICATION | 350 | 1. 2. | SUBJECT OF STUDIES I&II TWO LANGUAGES OUT OF FOLLOWING HINDI, ENGLISH, ASSAMESE, BENGALI, GUJRATI, KASHMIRI, KANNADA, MARATHI, MALYALAM, MANIPURI, ORIYA, PUNJABI, SINDHI, TAMIL, TELUGU, URDU, SANSKRIT, ARABIC, PERSIAN, LIMBOO, LEPCHA, BHUTIA, MIZO, TANGKHUL, BODO, NEPALI, TIBETAN, FRENCH, GERMAN, PORTUGUESE, RUSSIAN AND SPANISH. (DETAIL CONTENT AT L_4_Language) LANGUAGE I LANGUAGE II | 120 120 |
| | | | | ANY THREE PAPERS OUT OF FOLLOWING (DETAIL CONTENT AT L_4_General Ed Science Stream) | |
| | | | | MATHEMATICS | 150 |
| | | | | PHYSICS | 150 |
| | | | | CHEMISTRY | 150 |
| | | | | BIOLOGY | 150 |
| | | | | BIOTECHNOLOGY | 150 |
| | | | | ENGINEERING GRAPHICS | 150 |
| | | | | AGRICULTURE | 150 |
| | | | | COMPUTER SCIENCE | 150 |
| | | | | INFORMATICS PRACTICES | 150 |

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|--|--------------------------|------------|--|-------------------------------|------------|
| | | | | | |
| | | | | MULITMEDIA AND WEB TECHNOLOGY | 150 |
| | TOTAL VOC CONTENT | 350 | | TOTAL GENERAL CONTENT | 690 |
| | GRAND TOTAL | | | 1040 HRS. | |

SPECIALIZATION: FARM EQUIPMENT & MACHINERY: NVEQF/AUTO/FEM/LV

CERTIFICATE LEVEL- V

| S.N O | VOCATIONAL CONTENT (DETAIL CONTENT AT L All Vocational Ed Auto) | HRS . | S.N O | GENERAL CONTENT | HRS . |
|------------------|---|------------------|------------------|--|------------------|
| 1. | FARM TRACTOR BASIC | 50 | | ANY THREE PAPERS OUT OF FOLLOWING (DETAIL CONTENT AT L 5 General Ed Science Stream) | |
| 2. | TESTING: BASICS ,PERFORMANCE – HAULAGE, PERFORMANCE - FARM OPERATIONS, | 150 | | MATHEMATICS | 180 |
| 3. | STEERING & BRAKE /CLUTCH , HYDRAULIC TESTING, PTO TESTING, ATTACHMENT & IMPLEMENT TESTING, NVH & EMISSIONS | 300 | | PHYSICS | 180 |
| | | | | CHEMISTRY | 180 |
| | | | | COMPUTER SCIENCE | 180 |
| | | | | APPLIED STATISTICS | 180 |
| | | | | BOTANY | 180 |
| | | | | ZOOLOGY | 180 |
| | | | | BIOCHEMISTRY | 180 |
| | | | | MICROBIOLOGY | 180 |
| | | | | ELECTRONICS | 180 |
| | TOTAL VOC CONTENT | 500 | | TOTAL GENERAL CONTENT | 540 |
| | GRAND TOTAL | | | 1040 HRS. | |

SPECIALIZATION: FARM EQUIPMENT & MACHINERY: NVEQ/AUTO/FEM/LVI

CERTIFICATE LEVEL- VI

| S.N O | VOCATIONAL CONTENT (DETAIL CONTENT AT L All Vocational Ed Auto) | HRS . | S.N O | GENERAL CONTENT | HRS . |
|------------------|--|------------------|------------------|--|------------------|
| 1. | FARM TRACTOR: PERFORMANCE ENHANCEMENT – HAULAGE, PERFORMANCE ENHANCEMENT - FARM OPERATIONS, | 150 | | ANY TWO PAPERS OUT OF FOLLOWING (DETAIL CONTENT AT L_6_General_Ed_Science_Stream) | |
| 2. | STEERING & BRAKE /CLUTCH - DURABILITY, HYDRAULIC TESTING – DURABILITY, PTO TESTING – DURABILITY | 150 | | MATHEMATICS | 250 |
| 3. | ATTACHMENT & IMPLEMENT TESTING, NVH, EMISSIONS & COMFORT – DRIVER, DIAGNOSTICS, TRAINING TO USERS, | 250 | | PHYSICS | 250 |
| | | | | CHEMISTRY | 250 |
| | | | | COMPUTER SCIENCE | 250 |
| | | | | APPLIED STATISTICS | 250 |
| | | | | BOTANY | 250 |
| | | | | ZOOLOGY | 250 |
| | | | | BIOCHEMISTRY | 250 |
| | | | | MICROBIOLOGY | 250 |
| | | | | ELECTRONICS | 250 |
| | TOTAL VOC CONTENT | 550 | | TOTAL GENERAL CONTENT | 500 |
| | GRAND TOTAL | | | 1050 HRS. | |

SPECIALIZATION: FARM EQUIPMENT & MACHINERY: NVEQF/AUTO/FEM/LVII

CERTIFICATE LEVEL- VII

| S.N O | VOCATIONAL CONTENT (DETAIL CONTENT AT L All Vocational Ed Auto) | HRS . | S.N O | GENERAL CONTENT | HRS . |
|------------------|---|------------------|------------------|---|------------------|
| 1. | TRACTOR MOUNTED: EQPT. - BACKHOE: FRONT END LOADER: SELECTION & INSTALLATION, PERFORMANCE TESTING, HYDRAULIC & PTO , SPECIAL TESTS | 250 | | ANY ONE PAPER OUT OF FOLLOWING (DETAIL CONTENT AT L_7_General_Ed_Science_Stream) | |
| 2. | EARTH MOVING EQPT. -: OPERATION & MAINTENANCE, HYDRAULICS & CONTROLS , APPLICATION , TESTING , TROUBLE SHOOTING | 500 | | MATHEMATICS | 300 |
| | - | - | | PHYSICS | 300 |
| | | | | CHEMISTRY | 300 |
| | | | | COMPUTER SCIENCE | 300 |
| | | | | APPLIED STATISTICS | 300 |
| | | | | BOTANY | 300 |
| | | | | ZOOLOGY | 300 |
| | | | | BIOCHEMISTRY | 300 |
| | | | | MICROBIOLOGY | 300 |
| | | | | ELECTRONICS | 300 |
| | TOTAL VOC CONTENT | 750 | | TOTAL GENERAL CONTENT | 300 |
| | GRAND TOTAL | | | 1050 HRS. | |