

BROAD COMMON CHANGES MADE IN ALL

REVISED CTS TRADES

(Revised: 2017)

1. Practical content written in actionable format indicating exact practical to be carryout in specific week.
2. Each practical has provided with indicative hours.
3. The syllabus time structure format changed and this will facilitate instructors to refer syllabi as learning outcomes are correlated with the syllabus.
4. Sequencing of different component in the syllabi done in more rational way.
5. The job role has been defined as per NCO-2015 version.
6. Defined project work in each semester to be executed in a group in order to develop competency to execute the work in a team and also solve problem in case of any such occurrence.
7. Rationalized theory content and synchronized with practical.
8. Learning Outcome have been re-written with more clarity indicating actual competencies develop during the training and synchronized with practical content.
9. The syllabus format has been redesigned and made a complete document where in all relevant informations have been provided for information to all the Stake Holders.
10. The essential informations are arranged in proper chronological manner by avoiding repetition of information and made more eye catching.
11. As per industrial trend the tools and equipment list has been upgraded/ modified with more elaboration of specification.
12. Marking pattern for internal assessment: internal marks against each learning outcome proposed instead of sessional marks against each subject.

SOME TRADE SPECIFIC CHANGES

Electrician

1. Sequencing of different component in the syllabi done in more rational way for example -
 - a. Earthing and Maintenance of batteries - from 1st to 2nd semester
 - b. Repairing of domestic appliance – from 4th to 2nd semester
 - c. Illumination – from 3rd to 2nd semester
 - d. Electronic components/ circuit – from 1st & 2nd Semester to 4th Semester
2. Preparation of hand coil winding assembly and Making of wooden switchboard incorporated in 4-5 weeks.
3. Some practicals have been incorporated/ specified in 13-21 weeks related to characteristics of electrical and magnetic circuits.
4. Electroplating, anodising and cathodic protection have been removed from practicals. (27-28 weeks)
5. Practical on Solar cells in series/ parallel incorporated in 27-28 weeks.
6. Practical on tong tester incorporated in 39-40 weeks.
7. Practical on assembling of Solar Panel incorporated in 96 week.
8. Practical on tripping characteristics and maintenance of circuit breakers incorporated in 99 week.
9. Power Generation and Transmission content (6 weeks) have been reduced to 1 week and the content increased for Electrical fundamentals, wire joints, soldering, AC/DC machines, maintenance of domestic appliances etc.

Fitter

1. Forging operations (3weeks) have been deleted and accordingly related items deleted from tool list.
2. Practical on Power tools - 1 wk added.

3. Hydraulics, pneumatics and power tools components added in the syllabus. (4weeks) and related items added in the tool list.
4. Some practicals newly added viz., gauge to check involute profile, Spline marking, dismantling- Overhauling, cross-slide, bearing- dismantling and checking, etc.
5. Some theory content moderated as per practical.

Computer Operator and Programming Assistant (COPA)

1. Defined project work in each semester to be executed in a group in order to develop competency to execute the work in a team and also solve problem in case of any such occurrence.
2. In content part of the syllabus following changes made: -
 - a) Typing practice in regional language part – Deleted
 - b) Some essential practical on Cyber Security part – Added
3. Practical on Webpage hosting in a domain, Cyber Security, LAN set up are added in the syllabus and accordingly related items are added in tool list.
4. Total numbers of practical has been increased in each topic to be executed.
5. Some theory content moderated as per practical.

Diesel Mechanic

1. In Week No.15 “Vehicle performance Test” has been included in the practical along with the Existing “Dismantle & assemble of Diesel Engine from vehicle (LMV/HMV) along with other accessories”
2. In week no. 17 “Test” has been added in the practical “Trace, Test & Repair Cooling and Lubrication System of engine”.
3. In week no 18 practical for “Service Intake and Exhaust System” has been changed to “Trace & Test Intake and Exhaust system of engine “.

4. In week no 19. The Learning outcome has been modified from “Service Diesel Fuel System “ to “ Service Diesel Fuel System and check proper functionality” and according practical have been changed.
5. ”Project work has been defined in each semester to develop competency to and develop teamwork attitude.
6. “Film on Heat treatment process “has been removed from the practical content.
7. Some theory content has been modified as per practical.

Draughtsman Civil

1. All drawing in 3rd & 4th semester will be in CAD.
2. Some rearrangement of contents have been proposed viz. topics of surveying with chain and tape, prismatic compass, Plane table, Leveling Instrument, Theodolite have brought to second Semester from Fourth Semester considering Climatic condition and ease of preparing site plan before making building plan.
3. 3-D modelling & rendering of different types of building in CAD has been included.
4. Following are added in the content
 - i) preparation of Mouza map
 - ii) Projects on road
 - iii) Flow diagram of Water Treatment Plant (WTP) and Sewerage Treatment Plant (STP).

Electronics Mechanic

1. Single Range Meters Content newly added in week no. 6
2. Active components are added newly in 11-13 weeks.
3. One week reduced in Power Supply Circuits.
4. Transformers and Rectifiers are merged which are placed at 10th & 14-15th week respectively in previous syllabus and one week reduced.
5. Extra one week provided for Counter & shift Registers and some Practical are modified.

6. Practical & Theory modified in PCB Rework, some practicals added and extra one week provided.
7. New practicals on IC based AM transmitter, transmitter power, modulation index, Modulation of signals, percentage of modulation, etc., are added in Communication Electronics. (Extra one week provided)
8. One week Reduced in Analog IC Application
9. Inverter topic newly added.
10. One week reduced in SMPS & Inverter.