

CERTIFIED

TRACTORS AND IMPLEMENTS ONLINE COURSE FOR STUDENTS

2nd Batch commencing from 1st July 2021



ESCORTS
TRAINING AND DEVELOPEMENT
CENTRE



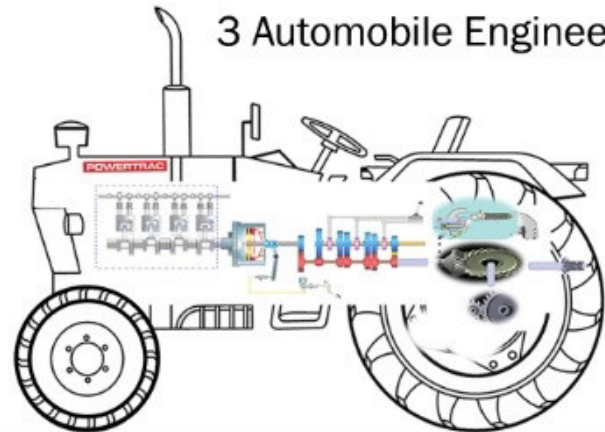
Salient Features:

- 4 weeks course Designed to meet current and future Industry challenges
- 341 students successfully completed these online courses in 2020
- Blended learning through Live webinars from Workshop and Mobile App based course modules
- Accomplishes the requirement of Summer/Internship Training in Graduation
- Certificate from Escorts Ltd upon Completion of the Course
- Attractive Fees Structure

Eligibility:

Graduate or Diploma student in

- 1 Agriculture Engineering
- 2 Mechanical Engineering
- 3 Automobile Engineering



Contact Us

7303668393

8754827503

etdc.academic@escorts.co.in



Chat with Us

**Escorts Training & Development Centre
(ETDC), Bengaluru – 560081**



Testimonial



ESCORTS
TRAINING & DEVELOPMENT CENTRE

ONLINE COURSE ON TRACTORS AND IMPLEMENTS

For Engineering Students



ESCORTS TRAINING AND DEVELOPMENT CENTRE (ETDC)

Ramakrishnapura, Chandapura - Anekal Road, Bengaluru - 560081. INDIA

Contact: **Email** – etdc.academic@escorts.co.in **Ph:** 9566377883

ONLINE COURSE INFORMATION

Course Name

Certification Course on Tractors and Implements - Online

Course Objectives

At end of this course, Participants will able to:

1. Show the competency on tractor technologies and applications to enter real-world work environment
2. Familiarize with Indian tractor industry – Companies, Products and their know-how
3. List down brands, model, unique features available in Escorts tractors
4. Explain the types, Construction, working principles, Assembly settings, preventive maintenance and basic trouble shooting of following tractor aggregates.
 - Engine
 - Clutch
 - Transmission
 - Rear Axle
 - Hydraulics
 - Front Axle and Steering
 - Electrical systems
5. Explain the types, construction, working principle and settings of major agriculture implements used in agriculture and non-agriculture applications
6. Describe the Tractor operating procedure - Importance of safety and techniques to get best output
7. Familiarize with types and purpose of different construction machineries

Eligibility

Students of BE / B. Tech / Diploma in

1. Agriculture Engineering
2. Mechanical Engineering
3. Automobile Engineering

Batch strength

30-50 participants per batch

Course Duration

It is Four weeks' program comprising of Live Webinars and Online Classroom Modules

Live Webinar Sessions – 28 Hours (14 Sessions)

Online Classroom Modules – 27 Hours

Total Duration – 55 Hours

Methodology

Live Webinar Sessions – Live facilitation through interactive sessions from workshops

Online Class Room Modules – Self paced online modules comprises Presentations, videos, learn with fun practice, quiz and queries / feedback session

Prerequisites

Zoom App installed in desktop/Laptop/Tab or Mobile phone

Electronic devices in fully charged conditions

Internet connectivity

Head phones(Preferable)

Notepad and pen

Medium of instruction

Course content – English





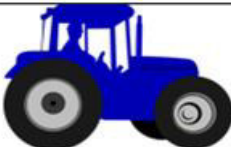




Trainer Interaction in webinars – English, Hindi, Kannada, Telugu & Tamil











ONLINE TRAINING COURSE CONTENT

Sl. No.	Chapters	Topics covered
1	Introduction of Tractors & Industry	Tractors vs Automobile
		Overview of tractor industry
		About Escorts company, Brand and models.
2	Engine	Purpose, Types, Construction and working principles
		Lubrication system, Cooling system and Fuel system
		Intake and exhaust system
		Preventive maintenance & basic trouble shooting
		Emission Norms and emerging technologies in engine
3	Clutch	Purpose, Types, Construction and working principles
		Preventive maintenance & basic trouble shooting
4	Transmission	Purpose, Types, Construction and working principles
		Gear ratios and power flows
		Safety features, Preventive maintenance and basic trouble shooting
		Emerging technologies in transmission
5	Rear Axle & Brakes	Purpose, Types, Construction and working principles
		Function of differential and differential lock
		Types of tyres being used in tractors
		PTO - Purpose, Types, Construction and working principles
		Preventive maintenance and basic trouble shooting
		Brakes - Purpose, Types, Construction and working principles

6	Hydraulics	Purpose, Types, Construction and working principles
		Automatic Depth and Draft control system – PC, DC & Blending
		Hydraulic oil flow Circuit
		Preventive maintenance and basic trouble shooting
7	Steering system	Purpose, Types, Construction and working principles
8	Front Axle	Purpose, Types, Construction and working principles
		2WD & 4 WD system and Wheel alignment
9	Electrical system	Purpose, Construction and working principles
		Basics, Battery, Alternator, Starter & Circuit
		Preventive maintenance and basic trouble shooting
10	Application Engg.	Implements - Agri & non-agriculture implements – Selection, Usage, Construction, Hitching, Unhitching and Settings
11	Construction machinery	Introduction of Different types of construction machineries
12	Assessment	Final evaluation for Certification and feedback session

ABOUT US

 <p>Trained over 2,00,000 people</p>	 <p>More than 3.65 Lakh Man days of training</p>	 <p>14,454 training Man days in FY 2019-20</p>
 <p>Spread over 90 acres</p>	 <p>30 tractors and more than 60 implements for practical sessions</p>	 <p>4 Classrooms</p>
 <p>Computer Lab with 20 Desktops</p>	 <p>Modern State - of - the -art Teaching aids including Video Conferencing room</p>	 <p>Workshops with Tractor Aggregates, Working models & Special tools</p>

 <p>Engine Workshop</p>	 <p>Transmission workshop</p>	 <p>Hydraulics Workshop</p>
 <p>Advanced PTO test lab</p>	 <p>Spare Parts Stock room and parts Lab room</p>	 <p>Model farm for Tractor operation & Crop solutions training</p>
 <p>Special Training Centre for Construction Equipment (ECE)</p>	 <p>Accommodation for 120 participants –Cottages and Hostel</p>	 <p>Cafeteria</p>
 <p>Recreational facilities and Experiential Learning</p>	 <p>Yoga Sessions</p>	 <p>E library with 12 desktops</p>
 <p>Indoor Sports Hall – Chess, Carom, Table Tennis, Dart.</p>	 <p>Outdoor Sports – Badminton courts, Volleyball Court, Cricket Ground</p>	 <p>Library with Agri industry, technology and other books</p>
 <p>Over 50 staff for Training, Administration and Facilities</p>	 <p>25 + courses to cater the needs of 15 types of audience</p>	 <p>Continuing legacy of quality training since 1969</p>

-----THANK YOU-----