



## Major Course Content:

- NO<sub>x</sub> Formation in Engines
- Fundamental, Effects of NO<sub>x</sub> Emission
- NO<sub>x</sub> Reduction Techniques
- Fundamental of SCR Technique
- Various Catalysts & their Operating Temperature Window
- SCR Reducing Agents or Diesel Exhaust Fluid (DEF)
- SCR Operation & System Components
- Ammonia Generation from Urea
- Reaction Mechanism
- Urea Dosing & Injection System
- Urea Spray Interaction
- SCR Regeneration



**Course Seat Time:**  
2 hours



**Course Validity:**  
60 days

## Overview:

Selective Catalytic Reduction (SCR) is an advanced emissions control technology which is used to reduce NO<sub>x</sub> emissions coming out from engine exhaust. It injects a liquid reducing agent like automotive grade urea, popularly known as Diesel Exhaust Fluid (DEF), into the exhaust line of a diesel engine. The application of SCR is now vital to meet BS-VI or Euro VI emission regulations for diesel passenger cars and also LCVs, HCVs and buses. However, there are still many challenges faced by industry such as system complexity, uniformity index, ammonia slip, high temperature tolerance, etc.

ARAI Academy presents a **comprehensive eLearning Proficiency Improvement Program (e-PIP)** on “**Selective Catalytic Reduction (SCR)**” for students, faculty and working professionals.

On completing this course successfully, learner will get a certificate.

## ePIP Highlights:

- Latest and up-to-date content
- Highly interactive, engaging and effective
- Real-life industry examples
- Assessments to assess learner's knowledge
- Certificate on passing the Final Assessment

## Course Cost (INR):

- **Student:** Rs. 1000 + 18% GST = Rs. 1180
- **Faculty:** Rs. 2000 + 18% GST = Rs. 2360
- **Corporate Individual:** Rs. 4000 + 18% GST = Rs. 4720