Trainer Guide

AUTOMOTIVE SERVICE TECHNICIAN

LN MAN AUT AST RW L3 ENG PG VER 1.00

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Foreword

LabourNet is a social enterprise that creates sustainable benefits for workers in the informal sector, by taking an end to end solution focused on plugging gaps in the eco-system to the market, to address all the challenges faced by the unorganized sector workforce today. This course on Automotive Service Technician is created to upgrade the skills of semi-skilled helpers in automotive industry and as well as new entrants with minimum required qualification.

This course book is designed for the training model known as work integrated learning. Trainee will be imparted with knowledge through lecture in the industry premises for fixed duration every day. For the remaining time trainee will be working in a shop floor. The trainer will be providing guidance for limited duration as and when required to ensure the trainee is acquiring the required skills to function as a independently as an automotive service technician.

The advantage of this model is that the trainee will be learning in the working environment and not many new facilities are required for training delivery, except sparing of the machinery for on-the job training under the guidance of the Trainer.

This course for Automotive service technician is designed to ensure that the trainee will be able to meet all the performance, knowledge and core skills criterion specified in the draft Qualification Pack for Automotive service technician vide Reference ID: ASC/Q 1401 published by NSDC
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Course Details

<table>
<thead>
<tr>
<th>Course Name</th>
<th>Automotive Service Technician (Automotive)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Course Code</td>
<td>LN MAN AUT AST RW L3 ENG PG VER 1.00</td>
</tr>
</tbody>
</table>

This course is designed for up grading the knowledge and basic skills to take up the job of ‘Automotive Service Technician’ in ‘Automotive Industry’ sector. All the activities carried out by an automotive service technician are covered in this course. Upon successful completion of this course the candidate will be eligible to work as automotive service technician.

This course is designed to provide the necessary knowledge and skill inputs for a technician to work in an organized and disciplined manner by following safe working practices, good housekeeping, effective communication, documentation and work ethics. Knowledge inputs are provided through participative lectures and other training methodologies like group discussion, role play and other activities to ensure effective learning. The methodology followed to impart the skill in service and repair of vehicle is ‘on the job training’ under guidance. Suggested exercises as part of OJT are provided at the end. The trainer can suitably modify them to suit the tools, machines and other equipment available in the company, where the training is being imparted. Formative assessment is carried out by the trainer as per the schedule in the assessment guide and summative assessment is carried out by external assessor.

Courseware consists of the following as per NSDC quality guidelines.

- Curriculum as well as Course Hand Book
- Trainers Guide
- Participants Guide
- Assessment Guide
- Training Delivery Plan
- Training Aids

Further Learning Opportunities:
Upon successful completion of this course the candidate will be eligible for attending advanced courses on Automotive Service Technician.
1. Key Competencies

Key competencies are derived from the QP

Upon successful completion, the Learners will be able to:

1. Assist in vehicle service and maintenance.
2. Plan and organize work to meet expected outcomes
3. Work effectively in a team
4. Maintain a healthy, safe and secure working environment.

<table>
<thead>
<tr>
<th>Course Duration</th>
</tr>
</thead>
<tbody>
<tr>
<td>No. of Days</td>
</tr>
<tr>
<td>No. of Hours Per Day (hrs)</td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td>Total No. Hours (Assessment)</td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td></td>
</tr>
</tbody>
</table>

*Refer Assessment Guide for actual hours. Maximum 3 hours allotted for Formative Assessment and 2 hours of Summative Assessment.

<table>
<thead>
<tr>
<th>Eligibility Criteria</th>
</tr>
</thead>
<tbody>
<tr>
<td>Age</td>
</tr>
<tr>
<td>NVEQF/NVQF level</td>
</tr>
<tr>
<td>Minimum Educational Qualifications</td>
</tr>
<tr>
<td>Maximum Educational Qualifications</td>
</tr>
<tr>
<td>Experience</td>
</tr>
</tbody>
</table>
2. Module wise duration

<table>
<thead>
<tr>
<th>Sl.No</th>
<th>Module Name</th>
<th>Guided Learning Hours (GLH)</th>
<th>Training</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td>Theory</td>
</tr>
<tr>
<td>1</td>
<td>Overview on Automotive industry and generic skills</td>
<td>1.5 hrs</td>
<td>-</td>
</tr>
<tr>
<td>2</td>
<td>Assist in vehicle service and maintenance</td>
<td>5 hrs</td>
<td>10 hrs</td>
</tr>
<tr>
<td>3</td>
<td>Plan and organize work to meet expected outcomes</td>
<td>2.5 hrs</td>
<td>5 hrs</td>
</tr>
<tr>
<td>4</td>
<td>Work effectively in a team</td>
<td>1 hr</td>
<td>2 hrs</td>
</tr>
<tr>
<td>5</td>
<td>Maintain a healthy, safe and secure working environment</td>
<td>1 hr</td>
<td>2 hrs</td>
</tr>
<tr>
<td></td>
<td>Total</td>
<td>11 hrs</td>
<td>19 hrs</td>
</tr>
<tr>
<td></td>
<td><strong>Total GLH</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Total Duration</strong></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Refer Assessment Guide for Maximum 3 hours allotted for Formative Assessment and 2 hours for Summative Assessment.

The trainer should prepare a plan for the OJT after discussing with the training coordinator/supervisor. In general the OJT should follow the sequence of modules provided above.

Suggested exercises as part of OJT are provided at the end. The trainer can suitably modify them to suit the tools, machines and other equipment available in the company, where the training is being imparted.
3. Training Centre Requirements

<table>
<thead>
<tr>
<th>Teaching Materials</th>
<th>LabourNet provides the following material to the Centres</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>• Course Hand Book/Syllabus-Curriculum</td>
</tr>
<tr>
<td></td>
<td>• Power point presentation</td>
</tr>
<tr>
<td></td>
<td>• Trainers Guide</td>
</tr>
<tr>
<td></td>
<td>• Participant Guide</td>
</tr>
<tr>
<td></td>
<td>• Assessment Guide</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Trainers Qualification</th>
<th>Graduate or Diploma holder in Automobile Engineering with 2/4 years of experience in Automotive Service Technician</th>
</tr>
</thead>
<tbody>
<tr>
<td>Evaluation team</td>
<td>Separate team form LabourNet with qualified and experienced personnel.</td>
</tr>
</tbody>
</table>

**Instruction to faculty-**

The faculty should follow all the Guides for training/ work/demonstrations/practical/on the job training
4. General Instructions for Trainers

Pre training:

- Trainer is provided with the training content for reference. For e.g. the topics you have to train in this programme.
- Before leaving for the training site Trainer should make sure that the trainees have been informed about the training.
- Trainers should make sure they have route map to reach the training site without any difficulties.
- By any chance if Trainer is getting delayed make sure that he/she should inform the site supervisor that you are getting delayed.
- As soon as the Trainer reaches the training site he/she should meet training coordinator/supervisor (to make sure of the training facilities are available-onsite, offsite).
- Please make sure you have all the required training tools and materials for conducting the training session (learning cards, sketch pens, raw materials etc.).
- Check your training equipments such as laptop, projector and camera, relevant tools (depending on the training site).
- Reach 15 minutes before to arrange for the training session

During the training

- Start the session with an icebreaker to settle the participants for the session.
- Welcome and Recap the previous days learning s and clarify the doubts if any.
- Mark attendance for the trainees at the beginning and the end of the training
- Follow the session plan strictly.
- Encourage the trainees to ask questions, explore ideas etc.
- Close the session with positive strokes

Specific instructions for Trainers - Course

- Use case stories (live examples) pertaining to the respective course training.
- Stop and check in between the sessions whether the learners are learning!!
- Ask the participants to draw a simple action plan with respect to the course to implement the learning’s from the days training programme.
- Use current version of the curriculum/training package linked from the Course training manual of LabourNet course page.
- Ensure the delivery and assessment strategies are consistent with those outlined in the Course Training and Assessment Strategy
- Discover how to Anchor positive states to gestures, words and pictures pertaining to Course trade during the onsite training.
- Appropriate paper based document repository with respect to course should be used.
- Assess group and individual needs verbally (actively listening) and/or in writing.
Establish trustworthiness with the group.

- Establish ground rules and/or reiterate them as needed, modelling and promoting protection of confidentiality, demonstrating consideration for other's feelings, and acknowledging occasions when trainees may have unintentionally broken a ground rule or offended someone.
- Acknowledge in advance possible feelings or differences of opinion that a session may generate.
- Trainers should get away from unclear thinking and unclear structure before they start the presentation.
- Trainers must communicate effectively with any audience, energy, voice and body to enhance presence, reputation and power.
- Become less dependent upon content and script, freeing up your creativity and passion!

Post training:

- Share/Report the observations found in the training site with the concerned person (coordinator/supervisor)
- Record on-going formative assessment results
5. Session Plan for each Module

**Module 1- Overview on automotive industry and generic skills**

**Module Objectives**

By completing this module the trainee would have gained knowledge about:

- Automotive industry in India
- The factory/section he/she is working and his role in the section
- Hazards associated with the trade and mitigation
- SHE guidelines and legal provisions
- Basics of workplace skills
- Use and wear PPE effectively

**Module Design**

<table>
<thead>
<tr>
<th>Session no.</th>
<th>Session Topics</th>
<th>Method</th>
<th>Duration</th>
<th>Training Aids/ Tools/Equipment</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Introduction to automotive industry and automotive service technician</td>
<td>Interactive lecture/Icebreaker</td>
<td>45 mins</td>
<td>PPT, PPE, Paper, Pen, Newspaper and Various safety and hazards signs</td>
</tr>
<tr>
<td>2.</td>
<td>Hazards, safety and health</td>
<td>Interactive lecture, demonstration, study tour and group discussion</td>
<td>30 mins</td>
<td></td>
</tr>
<tr>
<td>3.</td>
<td>Work place skills</td>
<td>Interactive lecture, group activity – writing, role play, reading</td>
<td>15 mins</td>
<td></td>
</tr>
<tr>
<td>TOTAL</td>
<td></td>
<td></td>
<td>1.5 hrs</td>
<td></td>
</tr>
</tbody>
</table>

**Session Plan 1- Introduction to automotive industry and automotive service technician**

**Session Objectives**

At the end of the session, the trainee will be able to:
• Explain the importance of automotive industry
• Describe servicing and technical repair of vehicles

Duration

<table>
<thead>
<tr>
<th>S.no.</th>
<th>Sub – Topics</th>
<th>Duration</th>
<th>Theory</th>
<th>Practical</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.1</td>
<td>Introduction to the automobile</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1.2</td>
<td>Evolution and growth of 4 wheeler segment</td>
<td>45 Mins</td>
<td></td>
<td>-</td>
</tr>
<tr>
<td>1.2</td>
<td>Introduction to factory/section</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1.4</td>
<td>Role of automotive service technician</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>TOTAL</td>
<td>45 Mins</td>
<td></td>
<td>-</td>
</tr>
</tbody>
</table>

Instructions to the Trainer

• Follow instructions given in the activity section
• Ensure all the task is done in sequence as given
• Gather all the materials and information required in well advance
• Keep the class energetic and motivated to learn

Materials/ Equipment Required

• Room to Accommodate 30 Trainees
• Black Board/White Board with Writing and Erasing Materials
• Computer and Projector for Power Point Presentation
• PPT and Participant Guide

Tips for Trainer

• Be energetic while introducing yourself to the trainees.
• Be aware of the timing required to complete the activity
• Training materials should be used at the right time and in the right way
• Maintain the flow of the module from start to finish
• Making sure that the Trainees are comfortable and eager to learn.

Slide No.3-31
Activity 1

Objective: To provide knowledge on automotive industry and job related activities as an automotive service technician.

Methodology:

Interactive Lecture

- Overview on automotive industry
- Describe servicing and technical repair of vehicles
- Brief on the courses and job related activities as an automotive service technician.

Material required: PPT, Participants Guide

Outcome: The trainee will be able to describe automotive, servicing and technical repair of vehicles and job related activities as an automotive service technician.

Session Plan 2 - Hazards, safety and health

Session Objectives

At the end of the session, the trainee will be able to:

- Familiar with the general hazards or risk that can lead to accidents
- Understand the basic safety, health and hygiene measures
- Wear and use PPE for safety

Duration

<table>
<thead>
<tr>
<th>S.no.</th>
<th>Sub - Topics</th>
<th>Duration</th>
<th>Theory</th>
<th>Practical</th>
</tr>
</thead>
<tbody>
<tr>
<td>2.1</td>
<td>Hazards</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2.2</td>
<td>PPE, Safety measures</td>
<td>30 Mins</td>
<td></td>
<td>-</td>
</tr>
<tr>
<td>2.3</td>
<td>Introduction to Housekeeping</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>TOTAL</td>
<td></td>
<td></td>
<td>30 Mins</td>
<td>-</td>
</tr>
</tbody>
</table>

Instructions to the Trainer

- Follow instructions given in the activity section
- Ensure all the task is done in sequence as given
- Gather all the materials and information required in well advance
- Keep the class energetic and motivated to learn

Tips for Trainer
• Be aware of the timing required to complete the activity
• Training materials should be used at the right time and in the right way
• Maintain the flow of the module from start to finish
• Making sure that the Trainees are comfortable and eager to learn.

Slide No.32-80

Activity 1

Objective: To provide knowledge on various hazards and safety measures

Methodology:

Interactive Lecture

• PPE Uses
• Hazards, Types of hazards, Common hazards that leads to accidents, possible risk at workplace
• Hazard assessment
• General safety measures while working

Material required: PPT, Participants Guide

Outcome: The trainee will be able to describe hazards and safety measures.

Activity 2

Objective: To demonstrate wearing of PPE.

Methodology:

Demonstration

1. Demonstration will take place in classroom

Material required: PPT, Participants Guide and PPE

Outcome: The trainee will be able to use PPE effectively

Activity 3
Objective: Identification of safety and hazard signs

Methodology: Each trainee will be asked to explain one of the hazard signs.

Material required: Various safety and hazards signs.

Outcome: Identify hazards and safety signs at work and determine the appropriate safety measures that should be followed to avoid any accidents.

Session Plan 3 – Workplace skills

Session Objectives

At the end of the session, participants will be able to:

- Describe communication, importance of good reading & writing skills and work ethic.
- Communicate effectively with co-workers in writing as well as orally.
- Read the documents that are necessary for them to read to carry out operator’s tasks.
- Understand the importance of work ethics and professionalism.

Duration

<table>
<thead>
<tr>
<th>S.no.</th>
<th>Sub – Topics</th>
<th>Duration</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Theory</td>
</tr>
<tr>
<td>3.1</td>
<td>Oral communication</td>
<td></td>
</tr>
<tr>
<td>3.2</td>
<td>Reading and comprehension skills</td>
<td></td>
</tr>
<tr>
<td>3.3</td>
<td>Writing skills</td>
<td>15 Mins</td>
</tr>
<tr>
<td>3.4</td>
<td>Work ethics and professionalism</td>
<td></td>
</tr>
<tr>
<td>3.5</td>
<td>Analytical thinking</td>
<td></td>
</tr>
<tr>
<td>TOTAL</td>
<td></td>
<td>15 Mins</td>
</tr>
</tbody>
</table>

Instructions to the Trainer

- Follow instructions given in the activity section.
- Ensure all the task is done in sequence as given.
- Gather all the materials and information required in well advance.
- Keep the class energetic and motivated to learn.

Tips for Trainer
• Be aware of the timing required to complete the activity
• Training materials should be used at the right time and in the right way
• Maintain the flow of the module from start to finish
• Making sure that the Trainees are comfortable and eager to learn.

**Slide No.81-148**

Activity 1

**Objective:** To provide basic information on communication skills and work ethics

**Methodology:**

**Interactive Lecture**

- Communication: oral and writing
- Reading skills and tips to enhance the reading
- Work ethics and professionalism

**Material required:** PPT, Participants Guide

**Outcome:** The trainee will be able to describe communication, importance of good reading & writing skills and work ethic.

Activity 2

**Objective:** Enhance basic communication skills

**Methodology:**

**Group activity – Role play**

Role play is a technique in which several individuals or a small group of participants act out a real-life situation in front of the group. The scenario of the role play is related to the training topic and must have a skill-based objective. There is no script; however, the situation is described in as much detail as appropriate. The participants make up their parts as the situation unfolds. The role play is then discussed in relation to the situation or problem under consideration.
Prepare scenario related to their interaction with subordinate, supervisor, engineer, keeping professionalism and work ethics in mind. Eg. Asking for leave, from supervisor, admitting fault, reporting an incident etc.

**Material required:** Paper, Pen

**Outcome:** The trainee will be able to communicate effectively with co-workers

**Debrief:**

The trainer will recap by asking one of the participants to name few job roles as an tyre moulding operator.

### Module 2- Assist in vehicle service and maintenance

**Module Overview**

This module will introduce learners to the motor vehicle service and maintenance. This module will provide all the relevant knowledge that is required by the technician to carry out basic services on vehicles under supervision i.e, oil changes, Lubrication, Washing vehicles, minor component replacement, mixing cleaning solutions, dismantle aggregates like wheels, suspension system, steering column, braking system, engine assembly etc.,

**Module Objectives**

By completing this module the trainee would have gained knowledge about:

- Basic functioning of various components and aggregates of a vehicle.
- Assist in performing vehicle service and maintenance

**Underpinning Knowledge/ Theory/ Principle**

Participant should be well versed with following knowledge and skills before starting this module:

- Automotive service technician job responsibilities
- General hazards at factory/workplace
- Safety measures
- Reading and writing skills

**Module Design**

<table>
<thead>
<tr>
<th>Session no.</th>
<th>Session Topics</th>
<th>Method</th>
<th>Duration</th>
<th>Training Aids/ Tools/Equipment</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Automotive safety and tools</td>
<td>Interactive lecture, study tour, group</td>
<td>2 Hrs</td>
<td></td>
</tr>
</tbody>
</table>
### Session Plan 1 – Automotive safety and tools

**Session Objectives**

At the end of the session, the trainee will be able to:

- Describe workshop hazards and safety
- Describe tools used during routine servicing and repairs of a vehicle

**Duration**

<table>
<thead>
<tr>
<th>S.no.</th>
<th>Sub – Topics</th>
<th>Duration</th>
<th>Theory</th>
<th>Practical</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.1</td>
<td>Shop hazards and safety</td>
<td>45 Mins</td>
<td>1 hr</td>
<td>15 mins</td>
</tr>
<tr>
<td>1.2</td>
<td>Workshop tools</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>TOTAL</td>
<td></td>
<td></td>
<td>45 Mins</td>
<td>1 hr 15 mins</td>
</tr>
</tbody>
</table>

**Instructions to the Trainer**

- Follow instructions given in the activity section
- Ensure all the task is done in sequence as given
- Gather all the materials and information required in well advance
- Keep the class energetic and motivated to learn

**Tips for Trainer**

- Be aware of the timing required to complete the activity
- Training materials should be used at the right time and in the right way
- Maintain the flow of the module from start to finish
- Making sure that the Trainees are comfortable and eager to learn.

**Slide No.150-197**
Activity 1

Objective: To provide knowledge on workshop hazards and safety

Methodology:

Interactive Lecture

- Hazards and Safety
- Health
- Reporting risk

Material required: PPT, Participants Guide

Outcome: The trainee will be able to explain workshop hazards and various safety measures to minimize the risk.

Activity 2

Objective: To demonstrate the use of tools used during servicing and repair of vehicles.

Methodology:

Study tour, group discussion, Demonstration

- Pressure indicators
- Pullers
- Specialty wrenches
- Measuring Equipment

Material required: PPT, Participants Guide, PPE, Tools

Outcome: The trainee will be able to demonstrate the use of various tools used during routine servicing and repairs.
Session Plan 2 – Major components and aggregates of a vehicle

Session Objectives

At the end of the session, the trainee will be able to:

- Understand the basic functioning of engines and fuel system, cooling system, air supply systems, emission and exhaust system, ignition systems, Clutch assembly, Clutch operating system, Gearbox, Drivelines and hubs, Drive train assembly and transmission, Steering system, suspension system, Brake system, Tyres & wheels, Radiator, batteries and power storage system, Power generating systems, Electrical wire harness, air conditioning system, Lighting, Electronic systems, Electronic control unit, Hydraulic Pneumatic system, various lubrication systems, etc.

Duration

<table>
<thead>
<tr>
<th>S.no.</th>
<th>Sub - Topics</th>
<th>Duration</th>
<th>Theory</th>
<th>Practical</th>
</tr>
</thead>
<tbody>
<tr>
<td>2.1</td>
<td>Functioning of components and aggregates of a vehicle</td>
<td>1.5 hrs</td>
<td>2.5 hrs</td>
<td></td>
</tr>
<tr>
<td></td>
<td>TOTAL</td>
<td>4 Hrs</td>
<td></td>
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</tr>
</tbody>
</table>

Instructions to the Trainer

- Follow instructions given in the activity section
- Ensure all the task is done in sequence as given
- Gather all the materials and information required in well advance
- Keep the class energetic and motivated to learn

Tips for Trainer

- Be aware of the timing required to complete the activity
- Training materials should be used at the right time and in the right way
- Maintain the flow of the module from start to finish
- Making sure that the Trainees are comfortable and eager to learn.

Slide No.198-335
Activity 1

Objective: To provide knowledge on basic functioning on various components and aggregates of a vehicle

Methodology:

Interactive Lecture

- Steering system
- Emission and exhaust system
- Brake system
- Radiator
- Suspension system
- Air conditioning system
- Power generating system
- Electronic system

Material required: PPT, Participants Guide

Outcome: The trainee will be able to describe basic functioning on various components and aggregates of a vehicle

Activity 2

Objective: To provide the practical knowledge of identifying various parts of an automotive engine.

Methodology:

Demonstration

Material required: PPT, Participants Guide, Reciprocating engine

Outcome: The trainee will understand the engine operation by observing the demonstration.

Session Plan 3 – Service and maintenance of automobile

Session Objectives

At the end of the session, the trainee will be able to:

- Describe vehicle service and repair
- Follow standard operating procedures
- Describe service manuals of vehicles
## Duration

<table>
<thead>
<tr>
<th>S.no.</th>
<th>Sub – Topics</th>
<th>Duration</th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>3.1</td>
<td>Vehicle service &amp; maintenance</td>
<td></td>
<td>2 hrs</td>
<td>7 hrs</td>
</tr>
<tr>
<td>3.2</td>
<td>SOP (Standard operating procedures) &amp; Service Manuals</td>
<td></td>
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<td>7 hrs</td>
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<td>Housekeeping</td>
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### Instructions to the Trainer

- Ensure all the task is done in sequence as given
- Gather all the materials and information required in well advance
- Keep the class energetic and motivated to learn

### Tips for Trainer

- Be aware of the timing required to complete the activity
- Training materials should be used at the right time and in the right way
- Maintain the flow of the module from start to finish
- Making sure that the Trainees are comfortable and eager to learn.

### Slide No.336-376

#### Activity 1

**Objective:** To demonstrate changing oil in automobiles

**Methodology:**

**Study tour and Demonstration**

**Material required:** PPT, Participants Guide, SOP, Engine oil

**Outcome:** The trainee will be able to explain procedure to carry out oil change in automobiles

#### Activity 2

**Objective:** To demonstrate the procedure in maintaining and managing the workshop tools, equipment and machinery in required condition.
Methodology:

Study tour, group discussion, Demonstration

- Cleaning and lubricating equipment
- Cleaning and organizing workshop
- Rinsing objects, tools and equipment

Material required: PPT, Participants Guide, PPE

Outcome: The trainee will be able to demonstrate good housekeeping in workshop.

Debrief:

The trainer will recap by asking one of the participants to name few job roles as a tyre moulding operator.

Assessment

1. List the important function of lubrication.
2. Explain briefly cooling system and its importance.

Module 3- Plan and organize work to meet expected outcome

Module Overview

This module about planning and organising an individual’s work in order to complete it to the required standards, on time and within budget in terms of cost and material

Module Objectives

By completing this module the trainee would have gained knowledge about:

- Importance of planning and organizing work at workplace
- Managing time, materials and cost effectively

Underpinning Knowledge/ Theory/ Principle

Participant should be well versed with following knowledge and skills before starting this module:

- Automotive service technician job responsibilities
- Assisting in vehicle service and maintenance
- General hazards at factory/workplace
- Safety measures
- Reading and writing skills
Module Design

<table>
<thead>
<tr>
<th>Session no.</th>
<th>Session Topics</th>
<th>Method</th>
<th>Duration</th>
<th>Training Aids/ Tools/Equipment</th>
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<tr>
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**Session Plan 1 – Planning and Organizing**

**Session Objectives**

At the end of the session, the trainee will be able to:

- Establish and agreeing work requirements with appropriate people
- Managing time, material and cost effectively
- Work in line with the organization’s policies and guidelines
- Work within the limits of his job role
- Keep the work area clean, safe and secure

**Duration**

<table>
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<th>Sub – Topics</th>
<th>Duration</th>
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**Instructions to the Trainer**

- Follow instructions given in the activity section
- Ensure all the task is done in sequence as given
- Gather all the materials and information required in well advance
- Keep the class energetic and motivated to learn

**Tips for Trainer**

- Be aware of the timing required to complete the activity
- Training materials should be used at the right time and in the right way
- Maintain the flow of the module from start to finish
- Making sure that the Trainees are comfortable and eager to learn.
Activity 1

Objective: To provide knowledge on planning and its importance

Methodology:

Interactive Lecture

- Planning and Organising

Material required: PPT, Participants Guide

Outcome: The trainee will be able to explain planning and its importance at workplace

Activity 2

Objective: To demonstrate the importance of Planning and Organizing at workplace

Methodology:

Demonstration, Group Discussion

Material required: PPT, Participants Guide,

Outcome: The trainees will be able to demonstrate the importance of Planning and Organizing at workplace

Debrief:

The trainer will recap by asking one of the participants to different duties of a automotive service technician

Assessment

1. What is planning and list the different types of planning
2. Explain the importance of organizing at work place

**Module 4-Work effectively in a team**

**Module Overview**

This module is about working effectively within a team, either in individual’s own work group or in other work groups outside the organization.

**Module Objectives**

By completing this module the trainee would have gained knowledge about:

- Team work and collaboration at workplace
- Maintaining clear communication with everyone

**Underpinning Knowledge/ Theory/ Principle**

Participant should be well versed with following knowledge and skills before starting this module:

- Automotive service technician job responsibilities
- Assisting in vehicle service and maintenance
- General hazards at factory/workplace
- Safety measures
- Planning and organizational skills
- Reading and writing skills

**Module Design**

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<th>Session no.</th>
<th>Session Topics</th>
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<td></td>
<td>3 Hrs</td>
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**Session Plan 1 – Team work and communication skills**

**Session Objectives**

At the end of the session, the trainee will be able to:

- Work in a team effectively
- Pass on information to colleagues in line with organizational requirements
• Respect and carry out commitments made to colleagues
• Inform in time to colleagues if not able to fulfill the commitments made
• Identify and resolve if any problems in working with colleagues
• Follow organization’s policies and procedures
• Share resources with team members as per priority of tasks

Duration

<table>
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<th>S.no.</th>
<th>Sub – Topics</th>
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Instructions to the Trainer

• Follow instructions given in the activity section
• Ensure all the task is done in sequence as given
• Gather all the materials and information required in well advance
• Keep the class energetic and motivated to learn

Tips for Trainer

• Training materials should be used at the right time and in the right way
• Maintain the flow of the module from start to finish
• Making sure that the Trainees are comfortable and eager to learn.

Slide No 399-419

Activity 1

**Objective:** To provide knowledge on team work, effective communication and its importance

**Methodology:**

Interactive Lecture
- Team work
- Communication skills

**Material required:** PPT, Participants Guide

**Outcome:** The trainee will be able to explain the importance of team work and effective communication

**Activity 2**

Objective: To demonstrate the importance of team work at workplace

**Methodology:**

Demonstration, Group Discussion

**Material required:** PPT, Participants Guide

**Outcome:** The trainees will be able to demonstrate the importance of team work at workplace

**Debrief:**

The trainer will recap the whole session in brief

**Assessment**

1. What is the importance of team work
2. Write a note on working with colleagues

**Module 5-Maintain a healthy, safe and secure working environment**

**Module Overview**

This module is about monitoring the working environment and making sure it meets requirements for health, safety and security.

**Module Objectives**

By completing this module the trainee would have gained knowledge about:

- Maintaining a healthy, safe and secure environment at workplace
- Identifying and correcting hazards at workplace in accordance with organizational procedures
- Maintaining health and safety records as required by regulatory and company standards and procedures

**Underpinning Knowledge/ Theory/ Principle**
Participant should be well versed with following knowledge and skills before starting this module:

- Automotive service technician job responsibilities
- Assisting in vehicle service and maintenance
- Planning and organizational skills
- Reading and writing skills

**Module Design**

<table>
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<th>Session no.</th>
<th>Session Topics</th>
<th>Method</th>
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<td>3 Hrs</td>
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<td><strong>TOTAL</strong></td>
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<td>3 Hrs</td>
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**Session Plan 1 – Health, safety and security requirements**

**Session Objectives**

At the end of the session, the trainee will be able to:

- Comply with organisation’s current health, safety, security and environmental policies and procedures
- Report identified any health, safety, security and environmental policies and procedures
- Identify and report hazards at workplace in accordance with organizational procedures
- Follow organisation’s emergency procedures
- Identify and recommend opportunities for improving health, safety and security at workplace
- Maintain health and safety records as required by company and regulatory standards and procedures

**Duration**

<table>
<thead>
<tr>
<th>S.no.</th>
<th>Sub – Topics</th>
<th>Duration</th>
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</thead>
<tbody>
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</table>

**Instructions to the Trainer**

- Follow instructions given in the activity section
- Ensure all the task is done in sequence as given
- Gather all the materials and information required in well advance
- Keep the class energetic and motivated to learn

**Tips for Trainer**

- Be aware of the timing required to complete the activity
- Training materials should be used at the right time and in the right way
- Maintain the flow of the module from start to finish
- Making sure that the Trainees are comfortable and eager to learn.

**Activity 1**

**Objective:** To provide knowledge on maintaining health, safety and security at workplace

**Methodology:**

**Interactive Lecture followed by group discussion**

- Personal protective equipment (PPE)
- Non-authorized / restricted areas
- Protective safety requirements
- Hazards and safety from machinery

**Material required:** PPT, PPE, and Participants Guide

**Outcome:** The trainee will be able to explain the importance of maintaining health, safety and security at workplace

**Activity 2**

Objective: To demonstrate the evacuation process in case of any health threat at workplace
Methodology:

Demonstration

Material required: PPT, Participants Guide,

Outcome: The trainee will be able to demonstrate the evacuation process of any health threat at workplace

Debrief:

The trainer will recap the whole session in brief