3-Day HTML + HTML5 Training Program

Goal: By the end of 3 days, trainees can build a multi-page, semantic, SEO-friendly, accessible website using HTML5 features.

Day 1 — HTML Basics + Semantic Structure

What to Learn (Detailed)

- **HTML Page Structure**: `<!DOCTYPE html>`, `<html>`, `<head>`, `<body>`.
- **Head Elements**: `<title>`, `<meta charset>`, `<meta name="description">`, `<link>`, favicon.
- **Text Elements**: `<h1>–<h6>`, `<p>`, `<span>`, `<br>`, `<hr>`.
- **Formatting Elements**: `<b>`, `<i>`, `<u>`, `<strong>`, `<em>`, `<mark>`, `<sup>`, `<sub>`.
- **Lists**: `<ul>`, `<ol>`, `<li>`, `<dl>`, `<dt>`, `<dd>`.
- **Links**: `<a href>`, target, title, mailto, tel.
- **Images**: `<img src alt>`, `<figure>`, `<figcaption>`.
- **Semantic Elements**: `<header>`, `<nav>`, `<main>`, `<section>`, `<article>`, `<aside>`, `<footer>`.
- **Accessibility**: `alt`, `lang`, skip links.

Task: Portfolio Website (Structure Only)

- Create 3 pages: `index.html`, `about.html`, `contact.html`.
- Use **semantic structure** on all pages.
- Add navigation links between pages.
- Insert images with `<figure>` and `<figcaption>`.
- Add metadata (title, description, favicon).
- Add a **skip-to-content link** for accessibility.

Deliverable: A clean, 3-page semantic portfolio.
Connection: This foundation will be extended with forms and media.

Day 2 — Forms, Tables & Media

What to Learn (Detailed)

- **Forms (Basics)**: `<form>`, `<input type="text">`, `name`, `id`, `value`, `placeholder`, `required`.
- **Form Controls**:
  - Text: `text`, `email`, `password`, `number`, `date`, `range`, `color`, `file`.
  - Choice: `radio`, `checkbox`, `<select>`, `<option>`, `<datalist>`.
  - `<textarea>`, `<button>`.
- **Form Attributes**: `action`, `method`, `novalidate`, `autocomplete`.
- **Validation**: `minlength`, `maxlength`, `pattern`, `required`, custom messages.
- **Tables**: `<table>`, `<tr>`, `<th>`, `<td>`, `<caption>`, `<thead>`, `<tbody>`, `<tfoot>`.
- **Media**: `<video>`, `<audio>`, `<source>`, `<track>`, `<iframe>` (lazy loading).
- **Accessibility**: `<label for>`, `aria-describedby`, captions for videos.

Task: Contact Page with Form + Media

- On `contact.html`: Add a **signup form** with name, email, password, confirm password, phone, gender, country (dropdown), terms (checkbox).
- Add validation rules (required, min length, regex for email/phone).
- Show inline hints (`aria-describedby`).
- On `index.html`: Add a `<video>` (with poster, captions), `<audio>` with fallback text, and embed a YouTube video with lazy loading.
- On `about.html`: Add a **table** showing personal/project info.

Deliverable: A working **form, table, and media integration**.
Connection: Expands the portfolio into an interactive, informative site.

Day 3 — Advanced HTML5 Features

What to Learn (Detailed)

- **Responsive Images**: `srcset`, `<picture>`, `loading="lazy"`.
- **SEO Metadata**:

  - Open Graph (`og:title`, `og:description`, `og:image`).

- - Twitter Cards.
    - Canonical link.
- **Structured Data**: JSON-LD (`BlogPosting`, `Organization`).
- **Performance Hints**: `<link rel="preload">`, `<link rel="preconnect">`, defer/async scripts.
- **Graphics**: Inline SVG, `<canvas>`.
- **Iframes Advanced**: sandbox, allowfullscreen, lazy loading.
- **Accessibility Advanced**: `role`, `aria-label`, keyboard navigation.

Task: Blog Page with Modern Features

- Create `blog.html`:
    - Add responsive banner image (`<picture>`).
    - Add SEO metadata (Open Graph, Twitter card).
    - Add JSON-LD structured data (`BlogPosting`).
    - Add inline SVG icon (share button).
    - Add a `<canvas>` element drawing a "Read More" badge.
    - Preload main CSS/JS for faster loading.

Deliverable: A **modern blog page** optimized for SEO, performance, and accessibility.
Connection: Completes the portfolio with advanced, real-world features.

Capstone Project (End of Day 3)

Deliver a **Multi-Page Portfolio Website** with:

- **Day 1:** Semantic structure (Home, About, Contact).

- **Day 2:** Forms, tables, media.

- **Day 3:** Responsive images, SEO, JSON-LD, SVG, Canvas.

Final Goal: Trainee can deliver a **production-ready HTML5 website** following best practices from **W3Schools + real-world projects**.

This new version **covers all the basics AND advanced topics** (from w3s & real dev needs).