

**ERASMUS+ PROGRAMME 2014-2020**  
**Mobility of Individuals – Mobility of VET learners**

## Web Development with HTML (2 weeks)

### Description and Goals

Experiencing professional training in Germany, thus getting to know its culture and regional differences and specialties paired with the latest developments in education and the labour market in the web design and IT-Networking sector are the essence of this training programme.

The training experience comprehends the planning and realisation of a web page. This includes knowledge about web servers, web design, and the wide field of HTML. The learners will plan their own web page, code it with HTML-CSS, and host it on their private server (2 weeks course).

There is the option to extend the training with a 1 week IT-Networking add-on course. That additional week introduces the field of IT-Networking and establishes a strong base by imparting definitions, terms, technologies, and other important knowledge about IT-Networking.

Finally, the students will work on a group work and present their results to an audience. All topics will be covered by professionals formerly or currently working in that field, respecting the latest trends in that industry and applying a hands-on approach.

Given the wide range of topics a web page can be created for, the focus can be shifted according to the target group.

In addition to the technical content of the programme the learners will get the chance to improve their language and soft skills and experience Dresden through cultural visits and other free time activities.

### Target group

VET Learners of public or private schools training in the field of IT/Web development who would like to expand their skill set by discovering relevant aspects and approaches of training in that field in Germany as well as German culture.

The intensity and complexity of the Units can be varied according to the previous knowledge and qualification of the participants.

### Learning outcomes

#### Professional Competences

##### *Unit 1: Fundamentals and web server*

- Explaining basic functions of servers, protocols, IP addressing, port, Internet Service Provider (ISP), and networking commands
- Installing of two operating systems
- Configuring the IP addresses
- Sharing data between the systems
- Describing functions of different web servers, HTTP, HTTPS
- Installing and working with XAMPP

### General Information

#### Place

WBS TRAINING AG Dresden  
(other places on request and availability)

#### Duration

2 weeks, lessons from Monday – Friday 9.00 – 14.30 (longer hours are possible on request)

#### Number of participants

14-20

#### Training Language

English (level A2 required)

### Contact

For further information on the training programme and for support with the project application, please feel free to contact:

WBS TRAINING AG  
Hugo-Junkers-Ring 5  
01109 Dresden  
GERMANY

#### Stefanie Heinitz

Head International Education  
Projects

[Stefanie.Heinitz@wbstraining.de](mailto:Stefanie.Heinitz@wbstraining.de)

Fon +49 351 888 63 61

Fax +49 351 888 63 50

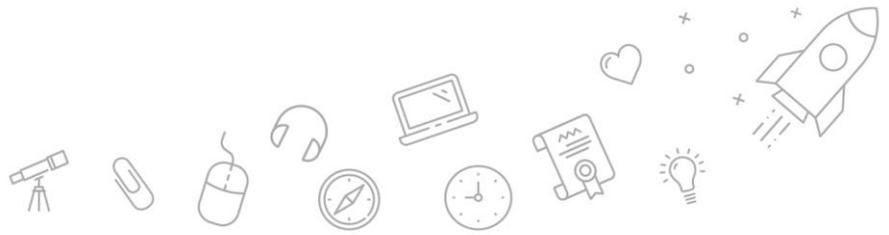
#### Laura Byfut

Coordinator International  
Education Projects

[Laura.Byfut@wbstraining.de](mailto:Laura.Byfut@wbstraining.de)

Fon +49 351 888 63 66

Fax +49 351 888 63 50



- Configuring XAMPP as a web server
- Hosting a website
- Connecting to the website from another computer
- Creating users and permissions

#### *Unit 2: Web design*

- Describing principles of the design and structure of a web page
- Naming optimisation tools (best web design tools and programs)
- Explaining principles of web technology and the functional specification document
- Planning and creating a functional specification document
- Describing functions of static and dynamic websites

#### *Unit 3: HTML – basics and intermediate*

- Describing functions of HTML and web browsers
- Explaining tags, elements, and their attributes
- Installing the coding app *Brackets*

#### *Unit 4: HTML – forms, styling, and working with media*

- Building online forms
- Creating Input-, Textarea-, Button-, Select-, and Fieldset-Tag
- Explaining the three types of styling HTML
- Describing CSS, Class and ID, and CSS styles
- Styling the website and improving the style
- Defining external interactive content or plugin and an embedded object
- Specifying an inline sub window (frame)
- Defining sound content and a video
- Applying the knowledge by exercising many examples

### **Personal Competences**

#### *Unit 5: Giving a presentation on a professional topic*

- Researching information on the internet using filters, comparing sources and filing it in folders on the hard drive
- Defining the issues of a complex professional task and their solutions
- Preparing a presentation about the project work in MS PowerPoint
- Presenting the work results in English using adequate terminology

#### *Unit 6: Working in a team confidently and self-responsibly*

- Setting work priorities and applying effective time management
- Sharing information with the team
- Listening to other team members' ideas and phrasing feedback adequately
- Assuming the own role and taking responsibility for own activities

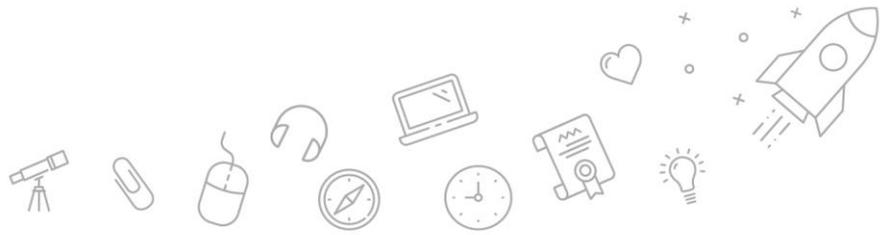
### **Methods**

The practical training course uses a learner-centred approach. After an introductory lecture by the trainer, the learners will mainly work in pairs or groups to fulfil various tasks assigned to them by the trainer and their work group members in order to simulate real work situations.

An essential element of the training is the project work, which the learners will carry out in groups, and which requires and improves skills such as autonomous

### **Project Funding**

The costs for this training programme can be fully or partially (depending on the number of participants) covered by project funding from the Erasmus+ programme (Key Action 1: Mobility). Please contact your National Agency for information on funding details.



work planning and team work. During the lessons the trainer as well as the learners will use different tools of visualization such as PowerPoint, pinboard, whiteboard and flipchart.

Other methods used in the training course will be:

- Brainstorming and mind mapping
- Interviews with classmates or clients/customers – field study
- Observing and describing
- Group discussions
- Presentation and demonstration

### Assessment and Certification

In order to obtain reliable statements on whether all learning outcomes have successfully been achieved, a final assessment will be carried out. For this purpose, during the second week of their practical training, the learners will be assigned a practice-oriented task. This task will resemble a typical project work of the training field according to working life requirements. For the performance of this task, the learners will have to use their newly acquired knowledge, skills and competences. The participants will work in groups of 3 to 5 learners to complete their project work and will be supervised by their trainer. The actual assessment will take place on the last training day: The learners will give a presentation about their work, justifying the working progress and results.

To assess the work results, the trainer will work with standardised assessment sheets, which cover assessment criteria such as:

- Effective teamwork
- Correctness of work results
- Structure of the presentation as well as the quality and creativity of visualization

Upon successful completion of the mobility, the learners will receive a certificate by WBS TRAINING, supplemented by the description of learning outcomes according to the European Credit System for Vocational Education and Training (ECVET) principles. ECVET facilitates the transfer and recognition of learning outcomes acquired in another country and supports transparency of qualifications. WBS TRAINING also supports the sending organization in issuing the Europass mobility.

### Cultural Programme

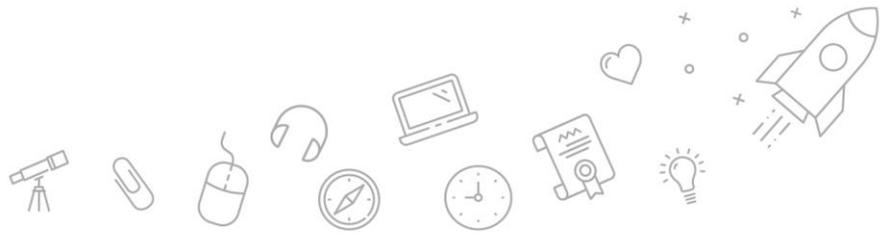
Dresden offers a wide variety of cultural, free time and physical activities. With plenty of museums, such as the famous *Historic Green Vault*, the *Old Masters Picture Gallery*, the *Technical Museum*, or the *German Museum of Hygiene*, everyone's taste can be met. Parks and gardens with the option to relax, to work out or to play a ball game, picturesque viewpoints, and many other places of interest just wait to be discovered. Not to forget the city Dresden itself: More than 800 years old, the city looks back to a long and exciting history. The lively *New Town* as well as the *Old Town* with its historical buildings – mostly reconstructed and renewed after the World War II – and the river *Elbe* are definitely worth seeing!

We will provide you an overview about all the things in and around Dresden and help you to decide, what to do. Depending on entrance fees, extra costs for transport, and/or different costs for services, additional expenses may arise.

### Accommodation and Subsistence

Accommodation, subsistence, public transport tickets and cultural programme can be organised according to your wishes.

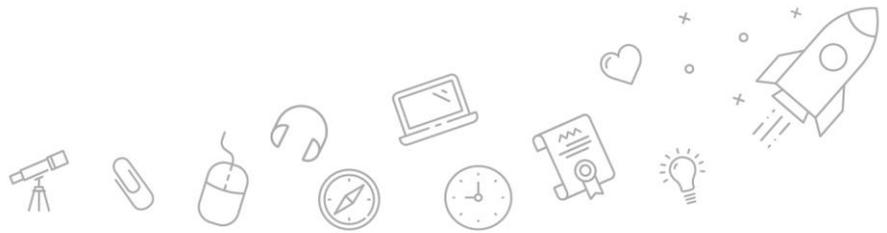
Please see financial offer for further details of the included services.



## Programme proposal

### Web Development (2 weeks)

Date	Programme
Sunday, Day 1	<b>Welcome</b> at Dresden Airport/Main Station <b>Arrival</b> at Hostel
Monday, Day 2	<b>09:00 – 14:30 Training: Web Server</b> <ul style="list-style-type: none"> <li>- What is Web Server?</li> <li>- What is HTTP?</li> <li>- How HTTP Works?</li> <li>- HTTP Request Message</li> <li>- HTTP Response Message</li> <li>- What is HTTPS?</li> <li>- XAMPP Web Server</li> <li>- XAMPP Installation</li> <li>- Checking XAMPP Installation</li> <li>- Working with XAMPP</li> </ul> <b>Practice:</b> <ul style="list-style-type: none"> <li>- Downloading and Installing Webserver – XAMPP</li> <li>- Configuring Webserver.</li> <li>- Securing Webserver</li> <li>- Users and Permissions in Webserver</li> <li>- XAMPP FTP Server</li> <li>- Configuring XAMPP as Services</li> </ul>
Tuesday, Day 3	<b>09:00 – 14:30 Training: Web Design</b> <ul style="list-style-type: none"> <li>- What is WebDesign?</li> <li>- Diagrams</li> <li>- Website structure</li> <li>- The design process</li> <li>- Design components</li> <li>- Functional specifications document</li> <li>- Static and dynamic</li> </ul> <b>Practice:</b> <ul style="list-style-type: none"> <li>- Explaining the final project</li> <li>- Choosing groups</li> <li>- Start writing the functional document</li> <li>- Using PowerPoint to introduce the final project</li> <li>- Help the students to figure out their projects and how to present it</li> <li>- Installing Brackets as the HTML-CSS Coding Software</li> </ul>
Wednesday, Day 4	<b>09:00 – 14:30 Training: HTML Coding</b> <ul style="list-style-type: none"> <li>- What is HTML?</li> <li>- Web Browsers</li> <li>- What do I need to create HTML?</li> <li>- What are tags?</li> <li>- HTML elements</li> <li>- HTML attributes</li> </ul>



Date	Programme
	<p><b>Practice:</b></p> <ul style="list-style-type: none"> <li>- Coding HTML-Basics, attributes, headings and paragraphs, image, links, list and tables</li> <li>- Continuing project work</li> </ul>
Thursday, Day 5	<p><b>09:00 – 12:30 Training: HTML Coding</b></p> <ul style="list-style-type: none"> <li>- Building online forms</li> <li>- The input tag</li> <li>- Input type</li> <li>- Input attributes</li> <li>- Textarea tag</li> <li>- Button tag</li> <li>- Label tag</li> <li>- Select tag</li> <li>- Fieldset tag</li> </ul> <p><b>12:30 – 14:30 Practice:</b></p> <ul style="list-style-type: none"> <li>- Coding HTML forms and input</li> <li>- Developing the project</li> </ul>
Friday, Day 6	<p><b>09:00 – 14:30 Training HTML-Coding – Style with CSS:</b></p> <ul style="list-style-type: none"> <li>- Cascading style-sheet</li> <li>- Implementing CSS</li> <li>- CSS class</li> <li>- CSS ID</li> </ul> <p><b>Practice:</b></p> <ul style="list-style-type: none"> <li>- Coding HTML with CSS-Style, Front Formatting and Colours</li> <li>- Project work</li> </ul>
Saturday, Day 14	<p><b>Continuation with Web Development</b></p> <p>Weekend at the disposal of the group, we will be happy to suggest cultural and other free time activities and to help organise a suitable programme.</p>
Sunday, Day 8	
Monday, Day 9	<p><b>09:00 – 14:30 Training:</b></p> <ul style="list-style-type: none"> <li>- HTML5 Semantics</li> <li>- Web Images</li> </ul>
Tuesday, Day 10	<p><b>09:00 – 14:30 Training: HTML – working with media:</b></p> <ul style="list-style-type: none"> <li>- Defines external interactive content or plugin</li> <li>- Defines an embedded object</li> <li>- Specifies an inline sub window (frame)</li> <li>- Defines sound content</li> <li>- Defines a video</li> </ul> <p><b>Practice:</b></p> <ul style="list-style-type: none"> <li>- Coding HTML with media</li> </ul>
Wednesday, Day 11	<p><b>09:00 – 14:30 Training:</b></p> <ul style="list-style-type: none"> <li>- Showing an example project</li> <li>- Web hosting</li> </ul> <p><b>Practice:</b></p> <ul style="list-style-type: none"> <li>- Starting to code the final project</li> </ul>



# WBS TRAINING



Date	Programme
Thursday, Day 12	<b>09:00 – 14:30 Training:</b> <ul style="list-style-type: none"><li>- Theoretical and practical exams</li><li>- Continue working on final project</li></ul>
Friday, Day 13	<b>09:00 – 12:30 Training:</b> <ul style="list-style-type: none"><li>- Finishing work on final presentations</li></ul> <b>13:00 – 14:30 Presentations, assessment and farewell</b> <ul style="list-style-type: none"><li>- giving final presentations about the individual project work</li><li>- Assessment of the newly acquired knowledge</li><li>- Evaluation of the project and handing out certificates</li></ul>
Saturday, Day 14	<b>Departure</b>

## Training programme/Description of practical training units

Last update: 20.12.2017