

Revised Application Documentation: Version 4 /22 August, 2016

QUALIFICATION FILE – Development of Web Application

Name and address of submitting body:

National Institute of Electronics and Information Technology (NIELIT)

(An ISO 9001:2008 Certified Organisation)``

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Name and contact details of individual dealing with the submission

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List of documents submitted in support of the Qualifications File

1. Detailed Course Content (Annexure I)
2. Industry Validation.(Annexure II)
3. Placement Record (Annexure III)

QUALIFICATION FILE SUMMARY

| | |
|--|--|
| Qualification Title | Certified Course in Web Designing |
| Qualification Code | NIELIT/WD/3/17 |
| Body/bodies which will assess candidates | National Institute of Electronics and Information Technology 6-CGO Complex, Electronics Niketan Lodhi Road, New Delhi. 110003. |
| Body/bodies which will award the certificate for the qualification. | National Institute of Electronics and Information Technology 6-CGO Complex, Electronics Niketan Lodhi Road, New Delhi. 110003. |
| Body which will accredit providers to offer the qualification. | National Institute of Electronics and Information Technology 6-CGO Complex, Electronics Niketan Lodhi Road, New Delhi. 110003. Presently, Accreditation No: O1283 |
| Occupation(s) to which the qualification gives access | Front end Web Designer, Web Site Maintenance |
| Proposed level of the qualification in the NSQF. | 3 |
| Notional Learning Hours | 80 hours for both Theory and Practical Learning(3 months Short term course) |
| Entry requirements / recommendations. | Basic Computer Knowledge |
| Progression from the qualification. | <p><u>Web Designer- Job Role</u></p> <p><u>Academic:</u></p> <p>After completion of the course student will be able to pursue Microsoft Certified Solutions Developer (MCSO), Responsive Web Design Course, Server Side Script Programming Which Combines a Programming Languages with Database like Dot NET, Java, and ASP with MySQL.</p> <p>Candidate can start from level 3 and lead to further levels.</p> <p><u>Professional:</u></p> <p>The candidate will be able to do Client side programming and scripting such as Web Site maintenance, Front end Developer. Further getting exposure he/she may able to do Server Side Programming also.</p> |
| Planned arrangements for RPL. | As per minimum eligibility criteria RPL is not mandatory |

| |
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Formal structure of the qualification

| Title of NOS/unit or other component (include any identification code used) | Mandatory/ Optional Enter M or O for each unit/ component | Estimated size (learning hours) The total should be the same as the entry under “anticipated volume” above | Level In the NSQF, individual units or components of qualifications can have outcomes which put them at levels which are higher or lower than the whole qualification. |
|---|---|---|---|
| Introduction to Internet to Web Design | Mandatory | 04 | 3 |
| HTML | Mandatory | 20 | |
| DHTML | Mandatory | 10 | |
| JavaScript | Mandatory | 10 | |
| Flash | Mandatory | 10 | |
| Photoshop | Mandatory | 10 | |
| CSS | Mandatory | 06 | |
| Project on Website Development | Mandatory | 10 | |
| Including Theory/ Lecture Hours/ Practical Hours | | 80 | |
| Total Hours | | 80 | |

SECTION 1 **ASSESSMENT**

Name of assessment body:

National Institute of Electronics and Information Technology
6-CGO Complex, Electronics Niketan,
Lodhi Road, New Delhi. 110003.

Will the assessment body be responsible for RPL assessment?

Give details of how RPL assessment for the qualification will be carried out and quality assured.

As per minimum eligibility criteria RPL is not mandatory. However, RPL may be carried out through screening, identifying the skill gaps, provide bridge training to cover the competency gap & then conduct final assessments of the candidates.

Describe the overall assessment strategy and specific arrangements which have been put in place to ensure that assessment is always valid, consistent and fair and show that these are in line with the requirements of the NSQF:

Student is required to pass in all OUTCOMES individually. Following assessment methodologies are used.

A. Written Assessment (Multiple Choice Questions)

The assessment results are backed by following evidences.

1. The assessor collects a copy of the attendance for the training done under the scheme. The attendance sheets are signed and stamped by the In charge / Head of the Training Centre.
2. The assessor verifies the authenticity of the candidate by checking the photo ID card issued by the institute as well as any one Photo ID card issued by the Central/Government. The same is mentioned in the attendance sheet.
3. The assessor assigns roll number.
4. The assessor takes photograph of all the students along with the assessor standing in the middle and with the centre name/banner at the back as evidence.

About Examination Pattern:

A student must score a minimum of 50 marks out of 100 marks. We divide the marks and allot them the Grade

The question papers for the theory are set by NIELIT main centre (Guwahati). They also conduct the evaluation of the laboratory and assignments locally.

Minimum Pass marks:

The minimum marks to be obtained for declaring a student pass is 50%.

Components of the Office Automation Examination System:

- **Registration System:** To register the candidate for examination
- **Question pattern:** To prepare Question paper of 50 marks
- **Examination System:** We manage the examination process by taking the candidate signatures along with the left hand thumb impression.
- **Result processing system:** The examination paper are evaluated physically by the faculties and then rechecked and examined again by Higher Authorities.

About Question Paper Pattern:

It has 50 Questions each carrying 1 mark which includes four sections:-

- 15 MCQ based Questions with one mark each.
- Fill in the blanks which carry 15 marks
- True or false which carry 10 marks
- Match the following of 10 marks

Salient Features:

- Provide end to end security and the examination paper seal is opened prior to the examination time.
- It conducts examination on candidates that are enrolled in given session.
- The students can again reappear right after the results are out.

Feedback System: This system is for conducting “The Student Survey” for quality assurance of education. Students, Faculties and administrators can all benefit from survey. This is helpful in the continual improvements in teaching programs, processes as well as infrastructure and thereby enhancing the students’ learning experience at NIELIT centres.

Please attach any documents giving further information about assessment and/or RPL.

ASSESSMENT EVIDENCE

Complete the following grid for each grouping of NOS, assessment unit or other component as listed in the entry on the structure of the qualification on page 1.

Job Role

Web Designer

Title of Unit/Component:

(Detailed Curriculum attached As Annexure-I)

| Assessable Outcomes | Assessment criteria for the outcome | Total Mark | Written |
|--|--|------------|---------|
| 1. Explain Internet Concept, Basics of Web Site | Learn use of Internet. | 10 | 10 |
| | Follow the basics of networking. | | |
| | Learn working principle of internet and WWW. | | |
| | Know the work of Internet Service Providers. | | |
| | Recognize various Servers available. | | |
| | Recognize Various Browsers, also how Client (i.e) browser will communicate with server using | | |

| | | | |
|--|---|------------|------------|
| | internet. | | |
| | Total | 10 | 10 |
| 2. Learn to create a web page using HTML | Follow procedure to create a web page using HTML basic Tags | 20 | 20 |
| | Execute the Procedure of split of web pages using HTML Tags | | |
| | Create Forms in web pages | | |
| | Manage the Procedure to decorate the web pages | | |
| | Total | 20 | 20 |
| 3. Explain how to create web page dynamically | Create a web page using DHTML basic Tags | 20 | 20 |
| | Learn to create a User Interface Design (UI) using HTML and DHTML | | |
| | Total | | |
| 4. Practice concepts of Validating web Page | Learn of the basics of JavaScript | 20 | 20 |
| | Implement Java Script on HTML Web Page | | |
| | Total | | |
| 5. Design web page with the help of W3 Standards, also learn to know how to use graphics tools | Apply style on web pages using CSS | 20 | 20 |
| | Execute the use of some graphics tools like photoshop and flash | | |
| | Total | | |
| 6. Develop simple project | Able to develop a simple project on web site creation using above learning techniques | 10 | 10 |
| | Total | 20 | 20 |
| | Grand Total | 100 | 100 |

Means of assessment 1

Theory portion Assessment will be done Physically by Faculties. Question Paper will be of Objective type

Pass Percentage

To qualify for a pass in a module, a candidate must have obtained at least 50% in each theory and practical examination. The marks will be translated into grades, while communicating results to the candidates. The gradation structure is as below:-

| Pass percentage | Grade |
|-----------------|-------|
| Failed (<50) | F |
| 50%-54% | D |
| 55%-64 | C |
| 65%-74% | B |
| 75%-84 | A |

85% and over S

Means of assessment 2

Re-examinations:

The following conditions will be applicable for the course end re-exam:

Students who do not appear for an exam on the scheduled date will not have an automatic right to re-examination. Only those students who, in the opinion of the centre/course coordinator have a genuine reason for being absent may be allowed to appear for a re-exam.

Students who have failed an exam may be allowed to appear for a re-exam.

The re-exam should be conducted following the same process as the regular examination.

Students, who failed/remained absent in the Course End Examination conducted by NIELIT or fail in the, shall be allowed to appear in the re-examination only once.

Students who remain absent re-examination will not get any further chance for appearing for the re-examination. In such case the candidate can receive the Performance Statement and the certificate of participation without any grade.

There will be no re-exam for the re-exam

Pass/Fail:

If Candidate scored below 50% in any of the component like Theory will be consider as FAIL.

SECTION 2

EVIDENCE OF NEED

What evidence is there that the qualification is needed?

In present scenario, e-commerce is an integral part of day to day activities. People buy things online and do online transactions. So, developing and maintaining e-commerce web sites is essential.

The course structure will provide overview of how to design and manage web site efficiently.

Evidences regarding qualification needed for achieving jobs in the field of Web Designing:

1. <http://www.indeed.com/q-Client-Side-Web-Developer-jobs.html>
2. <https://www.naukri.com/web-designer-jobs>

Avenues for Web Developer to their career in the field of Web designing are

The job profiles for the web developer includes:

- Front end web developer
- Back end web developer
- Web application developer
- Design and layout analyst
- Senior web analyst
- Web marketing analyst

The salary of a web designer vary from company to company, if you are a fresher working in this field then you may get a starting salary of 10000 to 25000 per month. After some experience you can easily make anywhere between 25000 to 40000 per month.

What is the estimated uptake of this qualification and what is the basis of this estimate?

The estimated uptake of this qualification is minimum 100 candidates per year. Since NIELIT Guwahati has 6 extension centres, among all minimum enrolment is take it for consideration.

What steps were taken to ensure that the qualification(s) does/do not duplicate already existing or planned qualifications in the NSQF?

The Qualification does not exist as per information available in public domain.

What arrangements are in place to monitor and review the qualification(s)?

What data will be used and at what point will the qualification(s) be revised or updated?

The Qualification is to be monitored and reviewed by Academic committee members for every two years.

With the help of following inputs provided

1. Results Analysis
2. Employer Survey
3. Alumni Survey

SECTION 3

SUMMARY EVIDENCE OF LEVEL

Level of qualification: 3

Summary of Direct Evidence:

Justify the NSQF level allocated to the QP by building upon the five descriptors of NSQF. Explain the reasons for allocating the level to the QP.

Generic NOS is/are linked to the overall authority attached to the job role.

| Title : Web Designer | | | Level : 3 |
|-------------------------------|--|---|-------------------|
| NSQF Domain | Outcomes of the Qualification/Component | How the job role relates to the NSQF Level Descriptors | NSQF Level |
| Process required | Candidate can more familiar on web development application with the help of HTML, DHTML and CSS. The theory and practical knowledge will provide a brief knowledge on Web site creation and maintenance. | Peron may carry out a job which may require limited range of activities routine and predictable. | 3 |
| Professional knowledge | After acquiring professional knowledge, The Candidate will have a good understanding of how HTML works and how to create dynamic web page with the help of JavaScript and CSS, by using Flash and Photoshop software, able to do some basic GUI designing and photo editing. | Knowledge of facts, principles, processes and general concepts, in a field of work or study. | 5 |
| Professional skill | <ul style="list-style-type: none"> • Decision making, plan and organize it. • Applied Creative thinking on their work-related activities. • Ability to communicate verbally to the team members • Documenting Web Application • Recommending web site improvements. • Updating or changes in web site content. | Recall and demonstrate practical skill, routine and repetitive in narrow range of application, using appropriate rule and tool, using quality concepts. | 4 |
| Core skill | <ul style="list-style-type: none"> • To identify customer requirements and needs. | Language to Communicate written or oral, with required | 4 |

| | | | |
|-----------------------|--|--|---|
| | <ul style="list-style-type: none"> • Design UI with above requirements. • To refine preliminary design if necessary. | clarity, skill to basic arithmetic and algebraic principles, basic understanding of social political and natural environment | |
| Responsibility | They would able to develop a web page on Client side. They may able to validate the code on client side scripting .They can assist in design and development phase of the client side project and also maintain web site on client side when required. | Under close supervision. Some responsibility for own work within defined limit | 3 |

SECTION 4

EVIDENCE OF RECOGNITION OR PROGRESSION

What steps have been taken in the design of this or other qualifications to ensure that there is a clear path to other qualifications in this sector?

Both Theory and analytics skills are acquired from this qualification, so that the student may upgrade them by taking further course on advance web designing.

1. Source: <http://www.webtechlearning.com/future-career-scope-of-web-designing-course-in-india/>

Today the world is dominated by web. Every business is now conducted globally using the web. In this digital world, the online presence on the web is very important for every organization to advertise, promote and sell their products and services to worldwide user. A candidate who will be learning about the basic of web designing which include HTML, CSS, Php, Photoshop, Dreamweaver, Word press, Joomla, and Magneto become a web developer.

Please attach any documents giving further information about any of the topics above.

SECTION 5

EVIDENCE OF INTERNATIONAL COMPARABILITY

List any comparisons which have been established.

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