

Assistant Software cum Web Developer Skill

सोफ्टवेयर डवलपर सहायक के रूप में कौशल अर्जित कर किसी भी सोफ्टवेयर कम्पनी/एजेन्सी या स्टार्टअप के साथ जुड़कर रोजगार प्राप्त किया जा सकता है। वेब डवलपर कौशल के माध्यम से सर्वाधिक उपयोगी वेब डिजाईन व निर्माण में सहायक के रूप में रोजगार व आगे और सीखने के अवसर हैं।

Course Name	Assistant Software Cum Web Developer Skill	Course Code	SSC/Q0508-503
<p>Training Outcomes : After completing this programme, participants will be able to:</p> <ul style="list-style-type: none"> Assist in performing software construction and software testing entry-level tasks in the IT Services industry Contribute to the design of software products and applications Develop media content and graphic designs for software products and Applications Manage their work to meet requirements Work effectively with colleagues Maintain a healthy, safe and secure working environment Provide data/information in standard formats Develop their knowledge, skills and competence 			

CURRICULUM / SYLLABUS

Part-A (Domain Skills)

S. No.	Module	Duration (In Hours)
1.	<p>Assist in performing software construction and testing entry-level tasks in the IT services industry:</p> <ul style="list-style-type: none"> Demonstrate basic computer and internet literacy including operating a Computer, describing its major components and how they work, using Windows and Linux OS, operating a browser, searching the internet, Managing mails and using social internet media. Demonstrate aptitude for analyzing information and making logical conclusions. Demonstrate knowledge of the foundational mathematical concepts in computing. Design algorithms to solve problems and convert them into code using the appropriate programming language constructs. <p>Read and execute a test case and record the outcome in the appropriate</p>	70:00
2.	<p>Self and Work management :</p> <ul style="list-style-type: none"> Establish and agree work requirements with appropriate people Keep immediate work area clean and tidy Utilize time effectively Use resources correctly and efficiently Treat confidential information correctly Work in line with organization's policies and procedures Work within the limits of job role Obtain guidance from appropriate people, where necessary Ensure work meets the agreed requirements 	40:00
3	<p>Programming for the Web :</p> <ul style="list-style-type: none"> Design basic programming structures to implement functionality in line with requirements defined in BRS/URS, SRS and HLD 	25:00
4	<p>Analysis and Design of Web based Applications :</p> <ul style="list-style-type: none"> Check their understanding of the Business Requirements Specification (BRS)/User Requirements Specification (URS) with appropriate people Check their understanding of the Software Requirements Specification (SRS) with appropriate people 	35:00



S. No.	Module	Duration (In Hours)
	<ul style="list-style-type: none">Check their understanding of High Level Design (HLD) with appropriate peopleReview their designs with appropriate peopleAnalyze inputs from appropriate people to identify, resolve and record design defects and inform future designsDocument their designs using standard templates and toolsComply with their organization's policies, procedures and guidelines when contributing to the design of software products and applications	
5	Media Content and Graphics Design : <ul style="list-style-type: none">Check their understanding of the Business Requirements Specification (BRS), Software Requirements Specification (SRS), High Level Design (HLD) and Low Level Design (LLD) with appropriate peopleAccess reusable components, media and graphical packages and tools from their organization's knowledge baseConvert requirements into media content and graphic designs, leveraging reusable components where availableSubmit media content timely and graphic designs for approval by appropriate peopleUpdate their organization's knowledge base with their experiences of the media content and graphic designs developedComply with their organization's policies, procedures and guidelines when developing media content and graphic designs for software products and applications	50:00
6	Self and Work Management : <ul style="list-style-type: none">Establish and agree their work requirements with appropriate peopleKeep their immediate work area clean and tidyutilize their time effectivelyUse resources correctly and efficientlyTreat confidential information correctlyWork in line with organization's policies and proceduresWork within the limits of their job roleObtain guidance from appropriate people, where necessaryEnsure their work meets the agreed requirements	10:00
7	Team Work and Communication : <ul style="list-style-type: none">Communicate with colleagues clearly, concisely and accuratelyWork with colleagues to integrate their work effectively with themPass on essential information to colleagues in line with organizational requirementsObtain guidance from appropriate people to agree the analysis to be performed on the dataObtain advice and guidance from appropriate people on issues with data analysis outside their area of competenceReview the results of their analysis with appropriate peopleUndertake modifications to your analysis based on inputs from appropriate peopleWork in ways that show respect for colleaguesCarry out commitments they have made to colleaguesLet colleagues know in good time if they cannot carry out your commitments, explaining the reasonsIdentify any problems they have working with colleagues and take the initiative to solve these problemsFollow the organization's policies and procedures for working with colleagues	10:00
8	Managing Health & Safety : <ul style="list-style-type: none">Comply with their organization's current health, safety and security policies and proceduresReport any identified breaches in health, safety, and security policies and procedures to the designated person	05:00



S. No.	Module	Duration (In Hours)
	<ul style="list-style-type: none"> Identify and correct any hazards that they can deal with safely, competently and within the limits of their authority Report any hazards that they are not competent to deal with to the relevant person in line with organizational procedures and warn other people who may be affected Follow their organization's emergency procedures promptly, calmly, and efficiently Identify and recommend opportunities for improving health, safety, and security to the designated person Complete any health and safety records legibly and accurately 	
9	Data and Information Management : <ul style="list-style-type: none"> Establish and agree with appropriate people the data/information they need to provide, the formats in which they need to provide it, and when they need to provide it Obtain the data/information from reliable sources Check that the data/information is accurate, complete and up-to-date Obtain advice or guidance from appropriate people where there are problems with the data/information Carry out rule-based analysis of the data/information, if required Insert the data/information into the agreed formats Check the accuracy of their work, involving colleagues where required Report any unresolved anomalies in the data/information to appropriate people Provide complete, accurate and up-to-date data/information to the appropriate people in the required formats on time 	10:00
10	Learning and Self Development : <ul style="list-style-type: none"> Obtain advice and guidance from appropriate people to develop their knowledge, skills and competence Identify accurately the knowledge and skills they need for their job role Identify accurately their current level of knowledge, skills and competence and any learning and development needs Agree with appropriate people a plan of learning and development activities to address their learning needs Undertake learning and development activities in line with their plan Apply their new knowledge and skills in the workplace, under supervision Obtain feedback from appropriate people on their knowledge and skills and how effectively they apply them Review their knowledge, skills and competence regularly and take appropriate action 	05:00
Sub Total		260:00

Part-B (Soft Skills)

S. No.	Topics	Duration (In Hours)
1.	Development Competency/ Proficiency in English/Vernacular	10:00
2.	Effective Communication	10:00
3.	Self & time Management	10:00
4.	Motivational Techniques	05:00



Skilling Youth
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S. No.	Topics	Duration (In Hours)
5.	Interpersonal Skill Development	05:00
6.	Computer Literacy	20:00
7.	Life Skills	05:00
8.	Entrepreneurship	15:00
9.	Occupational Safety, Health and Environment Education	10:00
Sub Total		90:00

Total Course Duration : 350 Hours