

Syllabus for Bachelor of Vocation (B.Voc), 6th Semester Branch: Sowtware Development Subject Name: On-Job Training (Elective): Master Trainer for Software Developer

With effective from academic year 2018-19

Subject Code: 1160207

Type of course: On-Job Training (Elective)

Prerequisite: Web Developer

Rationale:- On-job training, also known as OJT, is a hands-on method of teaching the skills, knowledge, and competencies needed for students to perform a specific task within the workplace. Students learn in an environment where they will need to practice the knowledge and skills obtained during their training.

Teaching and Examination Scheme:

	Teaching	Scheme		Credit	Examinat	ion Marks					
	L	Т	Р	С	Theory Marks		Practical Marks		Total		
					ESE (E)	PA(M)	ESE (V)	PA(I)	Marks		
	0	0	15	15	0	0	100	100	200		

L- Lectures; T- Tutorial/Teacher Guided Student Activity; P- Practical; C- Credit; ESE- End Semester Examination; PA- Progressive Assessment

OJT Hands on Exercise/Training:

Sr. No.	Training / Hands on Exercise	Hrs.
1	Assist in performing software construction and software testing entry-level tasks in	50
	the IT Services industry	
	PC1. 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.	
	PC2. Demonstrate aptitude for analyzing information and making logical conclusions.	
	PC3. Demonstrate knowledge of the foundational mathematical concepts in computing. PC4. Design algorithms to solve problems and convert them into code using the	
	appropriate programming language constructs.	
	PC5. Read and execute a test case and record the outcome in the appropriate template.	
	PC6. Be able to communicate effectively with appropriate people w.r.t. assigned roles in	
	simple English – both oral and written.	
2	Employ Programming Lab Oriented Pedagogical Skills as a Master Trainer in the	70
	IT Industry	
	PC1. Plan for necessary laboratory infrastructure before conduct of a session	
	PC2. draw out an appropriate training schedule according to the learning objectives to be	
	met by considering a blend of appropriate instructional modes and the expected deliverables	
	PC3. plan for standard lab sessions aligned with theory sessions to achieve the set learning objectives	
	PC4. design structured problems with pre-determined solutions for trainees to learn problem solving, logical thinking and information analysis	
	PC5. design semi-structured or unstructured problems with multiple solutions aimed at inculcating the culture of inquiry and discovery	
	PC6. teach programming concepts by demonstrating how they work and ensure students solve problems progressively by applying concepts learnt each day	
	PC7. facilitate practice on the application of foundational mathematical concepts in	
	computing and organize activities to enhance problem comprehension skills, in the form	
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 of Input-Process-Output cycles PC8. impart training on how to design solutions to problems using flow charts or pseudo code, and how to convert them into code using suitable IT industry standard computer programming language constructs PC9. ensure observation by inculcating the process of performing dry run, read & execute test cases and record the outcomes in IT Industry standard templates PC10. provide exercises for code reading to expose trainees to different styles of programming, logic and program constructs PC11. introduce trainees to simple programming testing tools/ testing environment so as to expose them to the concepts of testing PC12. Instruct trainees on the significance of IT Business skills and Professional Competence. Imbibe the importance of being time bound on completing all lab assignments and projects PC13. ensure appropriate IT Industry specific documents and logs are maintained by trainees to capture planned work and actual work done including time lines PC14. ensure trainees are encouraged to use social internet media extensively to gather information PC15. Define criteria and mechanism for trainee evaluation and feedback. Assess trainees' performance on a continuous basis with a holistic perspective, capture and tabulate the same to bring about meaningful revelation and interpretation PC16. Analyze and take responsibility of trainees' performance and roll out appropriate lab assignments to ensure performance improvement. 2 Engage Pedagogical Skills as A Master Trainer PC1. design a curriculum based on a need and design a delivery plan in the light of a prescribed curriculum keeping in mind the available instructional modes and the relevant standards PC2. clearly state the training objectives to the trainees PC3. design outcome based formative and summative assessments by using appropriate tools to design, d	50
PC11. take ownership and responsibility for your trainees' behavior and performance and scrutinize performance of trainees to infer capabilities of trainees and mentor and	
guide them accordingly PC12. schedule corrective sessions to ensure learning objectives are met by all	
4 Manage your work to meet requirements	5
PC1. establish and agree your work requirements with appropriate people	



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PC2. keep your immediate work area clean and tidy

PC4. use resources correctly and efficiently PC5. treat confidential information correctly

PC3. utilize your time effectively

	rest tied confidential information confectly	
	PC6. work in line with your organization's policies and procedures	
	PC7. work within the limits of your job role	
	PC8. obtain guidance from appropriate people, where necessary	
	PC9. ensure your work meets the agreed requirements	
5	Work effectively with colleagues	
	PC1. Communicate with colleagues clearly, concisely and accurately	
	PC2. Work with colleagues to integrate your work effectively with them	
	PC3. Pass on essential information to colleagues in line with organizational requirements	
	PC4. work in ways that show respect for colleagues	
	PC5. carry out commitments you have made to colleagues	
	PC6. let colleagues know in good time if you cannot carry out your commitments,	
	explaining the reasons	
	PC7. identify any problems you have working with colleagues and take the initiative to	
	solve these problems	
	PC8. follow the organization's policies and procedures for working with colleagues	
	PC9. provide complete, accurate and up-to-date data/information to the appropriate	
	people in the required formats on time	
6	Maintain a healthy, safe and secure working environment	
	PC1. comply with your organization's current health, safety and security policies and	
	procedures	
	PC2. report any identified breaches in health, safety, and security policies and	
	procedures to the designated person	
	PC3. identify and correct any hazards that you can deal with safely, competently and	
	within the limits of your authority	
	PC4. report any hazards that you are not competent to deal with to the relevant person in	
	line with organizational procedures and warn other people who may be affected	
	PC5. Follow your organization's emergency procedures promptly, calmly, and	
	efficiently PC6. identify and recommend opportunities for improving health, safety, and	
	security to the designated person	
	PC7. complete any health and safety records legibly and accurately	
7	Provide data/information in standard formats	
	PC1. Establish and agree with appropriate people the data/information you need to	
	provide, the formats in which you need to provide it, and when you need to provide it	
	PC2. obtain the data/information from reliable sources	
	PC3. check that the data/information is accurate, complete and up-to-date	
	PC4. obtain advice or guidance from appropriate people where there are problems with	
	the data/information	
	PC5. carry out rule-based analysis of the data/information, if required	
	PC6. insert the data/information into the agreed formats	
	PC7. check the accuracy of your work, involving colleagues where required	
	PC8. report any unresolved anomalies in the data/information to appropriate people	
	PC9. provide complete, accurate and up-to-date data/information to the appropriate	
	people in the required formats on time	
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8	Develop your knowledge, skills and competence	10
	PC1. obtain advice and guidance from appropriate people to develop your knowledge,	
	skills and competence	
	PC2. identify accurately the knowledge and skills you need for your job role	
	PC3. identify accurately your current level of knowledge, skills and competence and any	
	learning and development needs	
	PC4. agree with appropriate people a plan of learning and development activities to	
	address your learning needs	
	PC5. undertake learning and development activities in line with your plan	
	PC6. apply your new knowledge and skills in the workplace, under supervision	
	PC7. obtain feedback from appropriate people on your knowledge and skills and how	
	effectively you apply them	
	PC8. review your knowledge, skills and competence regularly and take appropriate	
	action	
	Total	200

Reference:

1. <u>https://nsdcindia.org/sites/default/files/QP_SSC-Q0509_Master-Trainer-for-Software-Developer.pdf</u>