



COMPETENCY STANDARD FOR Consumer Electronics

(Light Engineering Industry Skills Council)

Level: 1

Competency Standard Code: CS-LE-CE-L1-EN-V1

National Skills Development Authority
Prime Minister's Office, Bangladesh

Level descriptors of NTVQF/ NSQF (BNQF 1-6)

Level & Job classification	Knowledge Domain	Skills Domain	Responsibility Domain
6 Mid-Level Manager/ Sub Assistant Engineer	Comprehensive actual and theoretical knowledge within a specific work or study area with an awareness of the validity and limits of that knowledge, able to analyze, compare, relate and evaluate.	Specialised and wider range of cognitive and practical skills required to provide leadership in the development of creative solutions to defined problems. Communicate professional issues and solutions to the team and to external partners/users.	Work under broad guidance and self-motivation to execute strategic and operational plan/s. Lead lower-level management. Diagnose and resolve problems within and among work groups.
5 Supervisor	Broad knowledge of the underlying, concepts, principles, and processes in a specific work or study area, able to scrutinize and break information into parts by identifying motives or causes.	Broad range of cognitive and practical skills required to generate solutions to specific problems in one or more work or study areas. Communicate practice-related problems and possible solutions to external partners.	Work under guidance of management and self-direction to resolve specific issues. Lead and take responsibility for the work and actions of group/team members. Bridge between management.
4 Highly Skilled Worker	Broader knowledge of the underlying, concepts, principles, and processes in a specific work or study area, able to solve problems to new situations by comparing and applying acquired knowledge.	A range of cognitive and practical skills required to accomplish tasks and solve problems by selecting and applying the full range of methods, tools, materials and information. Communicate using technical terminology and IT technology with partners and users as per workplace requirements.	Work under minimal supervision in specific contexts in response to workplace requirements. Resolve technical issues in response to workplace requirements and lead/guide a team/ group.
3 Skilled Worker	Moderately broad knowledge in a specific work or study area, able to perceive ideas and abstract from drawing and design according to workplace requirements.	Basic cognitive and practical skills required to use relevant information in order to carry out tasks and to solve routine problems using simple rules and tools. Communicate with his team and limited external partners upholding the values, nature and culture of the workplace	Work or study under supervision with considerable autonomy. Participate in teams and responsible for group coordination.
2 Semi-Skilled Worker	Basic understanding of underpinning knowledge in a specific work or study area, able to interpret and apply common occupational terms and instructions.	Skills required to carry out simple tasks, communicate with his team in the workplace presenting and discussing results of his work with required clarity.	Work or study under supervision in a structured context with limited scope of manipulation
1 Basic Skilled Worker	Elementary understanding of ability to interpret the underpinning knowledge in a specific study area, able to interpret common occupational terms and instructions.	Specific Basic skills required to carry out simple tasks. Interpret occupational terms and present the results of own work within guided work environment/ under supervision.	Work under direct supervision in a structured context with limited range of responsibilities.

Course Structure

For

NATIONAL CERTIFICATE IN CONSUMER ELECTRONICS (NSQF LEVEL 1)

Sl. No.	Unit Code and Title		UoC Level	Nominal Duration (Hours)
Generic (2 UoCs required)				30
1	GU002L2V1	Apply occupational safety and health (OSH) procedure in the workplace	2	15
2	GU008L2V1	Carryout workplace interaction	2	15
Sector Specific (2 UoCs required)				40
3	SULE001L1V1	Interpret drawing and specifications	1	20
4	SULE002L1V1	Identify hand tools and power tools	1	20
Occupation Specific – Compulsory (7 UoCs required)				305
5	OUCE001L1V1	Apply fundamentals skills for electrical works	1	35
6	OUCE002L1V1	Use equipment and measuring instrument in the workplace	1	50
7	OUCE003L1V1	Identify and test electronics components	1	20
8	OUCE004L1V1	Assemble Electronics Devices and Components	1	60
9	OUCE005L1V1	Repair and service basic home appliances	1	100
10	OUCE007L1V1	Assemble and repair LED bulbs and LED tube light	1	20
11	OUCE008L1V1	Identify major parts of LCD/LED TV	1	20
Total Nominal Learning Hours				375

Units & Elements at a Glance:

Generic Competencies (30 Hours)

Code	Unit of Competency	Elements of Competency	Duration (Hours)
GU002L2V1	Apply Occupational Safety and Health (OSH) Procedure in the Workplace	<ol style="list-style-type: none">1. Identify OSH policies and procedure2. Follow OSH procedure3. Report hazards and risks4. Respond to emergencies5. Maintain personal well-being	15
GN008L2V1	Carryout Workplace Interaction	<ol style="list-style-type: none">1. Interpret workplace communication and etiquette2. Read and understand workplace documents3. Participate in workplace meetings and discussions4. Practice professional ethics at workplace	15
Total Hour			30

Sector Specific Competencies (40 Hours)

Code	Unit of Competency	Elements of Competency	Duration (Hours)
SULE001L1V1	Interpret Drawings and Specifications	<ol style="list-style-type: none">1. Identify information from manuals2. Identify drawings and specifications3. Interpret drawings and specifications4. Store manuals	20
SULE002L1V1	Identify hand tools and power tools	<ol style="list-style-type: none">1. Follow OSH (Occupational safety and health) practices2. Prepare for using hand and power tools3. Use hand tools4. Use power tools5. Clean and store hand and power tools	20
Total Hours			40

Occupation Specific Competencies (305 Hours)

Code	Unit of Competency	Elements of Competency	Hours
OUCE001L1V1	Apply basic concepts of electricity	<ol style="list-style-type: none"> 1. Practice OSH. 2. Apply electrical concept and working principles 3. Interpret principles of electricity generation 4. Use electrical conductor, semiconductor and nonconductor 5. Select cables and wires 6. Perform connection of electrical circuits 	35
OUCE002L1V1	Use equipment and measuring instrument in the workplace	<ol style="list-style-type: none"> 1. Follow OSH practices 2. Identify equipment and measuring instrument 3. Perform soldering 4. De-solder components 5. Use SMD rework station (Hot gun) 6. Prepare for measurement 7. Take and record measurement 8. Store the materials and clean the workplace 	50
OUCE003L1V1	Identify and Test Electronics Components	<ol style="list-style-type: none"> 1. Prepare for testing and measuring 2. Identify the components 3. Test components 4. Clean and store measuring and testing equipment 	20
OUCE004L1V1	Assemble Electronics Devices and Components	<ol style="list-style-type: none"> 1. Prepare for assemble 2. Prepare circuit on breadboard 3. Mount and solder components 4. Identify SMD components 5. Install SMD components 6. Clean and store tools and equipment 	60
OUCE005L1V1	Repair and Service Home Appliances	<ol style="list-style-type: none"> 1. Prepare appliances, tools, equipment and workplace 2. Services Cooker (Rice, Carry, Induction, Infra-red) 3. Services <u>Blender</u> and <u>Juicer</u> 4. Service <u>Microwave Oven</u> 5. Service <u>Electric Iron</u> and <u>Kettle</u> 6. Clean and store tools and equipment 	100
OUCE006L1V1	Assemble and repair LED bulbs	<ol style="list-style-type: none"> 1. Prepare for assemble and repair 2. Assemble <u>LED bulb</u> and <u>tube light</u> 3. Repair LED bulb and tube light 4. Clean and store tools and equipment 	20
OUCE003L1V1	Identify major parts of <u>LED/LCD TV</u>	<ol style="list-style-type: none"> 1. Follow OSH Practice 2. Identify the sections 3. Identify the components 4. Clean tools and equipment 	20
Total Hours			305