EQUIPMENT LIST

CNC Operator Turning (CSC/Q0115)

#	Item	Qty
1	Manual Lifter	1
2	LCD projector, 1920 x 1080 resolution, 3000 lumens. Screen.	1
3	Integrated multimedia skill development software for CNC machining	15
4	Simulator	1
5	Industrial grade CNC Turning Center & cutting tools	2
6	Computer systems in LAN	15
7	Height Gauge	3
8	Gauges	10
9	Surface Plate	2
10	Laser printer with ethernet port	1
11	Safety Glasses	30
12	Industry Helmet	30
13	Apron	30
14	Safety shoes with steel toe	30
15	Industry hand gloves	30
16	Centre Punch	5
17	Hammer	4
18	Combination Plier	5
19	Vice Mounted Tables 3Ft X 3Ft X 2.5Ft(H)	1
20	Vernier Caliper	6
21	Number Punch	2
22	Scrap Box	2
23	Generator Set	1
24	Soft jaws	3
25	Vernier calipers 300 mm.	3
26	Micrometer – external, 0-25 mm, 25 -50 mm, 50 – 75 mm.	3
27	Bore gauge 18 – 35 mm	3
	Plug gauge 10, 16 dia.	3
28	Thread plug gauge M8 x 1.25, M10 x 1.5	3
29	Ring gauge for setting bore dial gauge – 30 dia.	3
30	Feeler gauge for work offset setting	3
31	Lever dial for work offset setting	3
32	Inside caliper for measuring ID grooves	3
33	Radius gauge	3
34	Thread pitch gauge	3
35	Tool storage drawer	3
36	First aid kit	1

CGSC
CAPITAL GOODS SKILL COUNCIL

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N·S·D·C
National Skill Development Corporation
Transforming the skill landscape
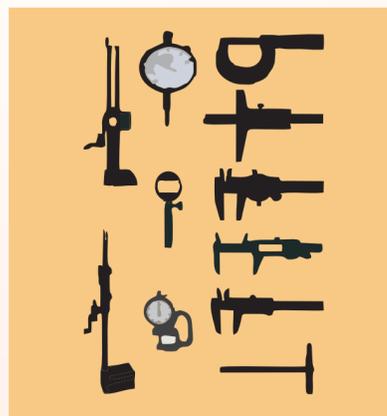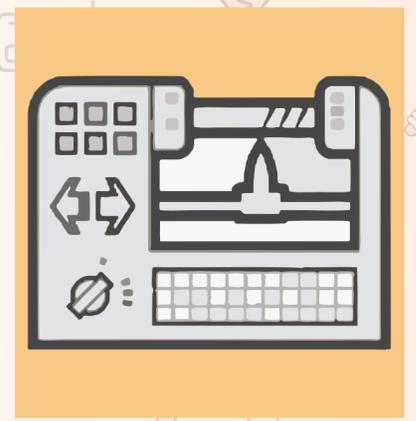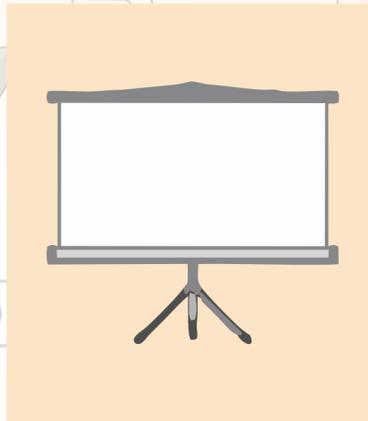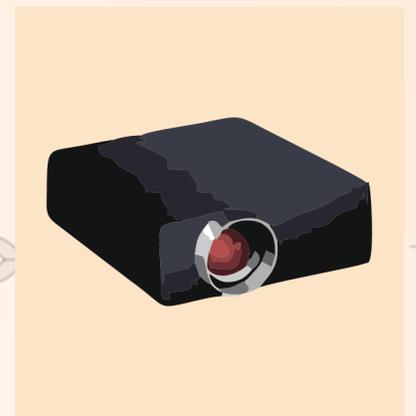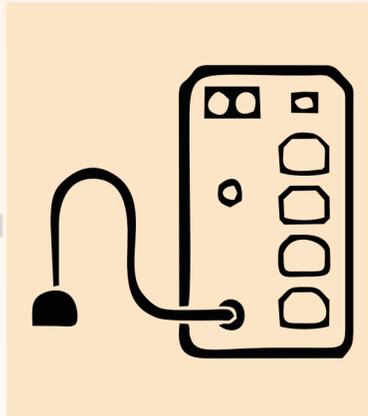
CNC Operator Turning   (CSC/Q0115)

Role Description	Operation of Computer Numerically Controlled (CNC) machines, such as CNC lathe machine, in order to perform turning operations on metal components, as per specifications provided.
NSQF level	3
Minimum Educational Qualifications **Maximum Educational Qualifications**	10th Standard pass, preferably Not Applicable
Prerequisite License or Training	No Previous Training Required
Minimum Job Entry Age	18 Years
Experience	No Previous Experience Required
Performance Criteria	As described in the relevant OS units

Applicable National Occupational Standards (NOS)	Guidelines for Assessment
1. **CSC/N0115**: Perform turning operations on metal components using Computer Numerically Controlled (CNC) machines 2. **CSC/N1335**: Use basic health and safety practices at the workplace 3. **CSC/N1336**: Work effectively with others	1. Criteria for assessment for each Qualification Pack will be created by the Sector Skill Council. Each Performance Criteria (PC) will be assigned marks proportional to its importance in NOS. SSC will also lay down proportion of marks for Theory and Skills Practical for each PC. 2. The assessment for the theory part will be based on knowledge bank of questions created by the SSC. 3. Assessment will be conducted for all compulsory NOS, and where applicable, on the selected elective/option NOS/set of NOS. 4. Individual assessment agencies will create unique question papers for theory part for each candidate at each examination/training center (as per assessment criteria below). 5. Individual assessment agencies will create unique evaluations for skill practical for every student at each examination/training center based on this criterion. 6. To pass the Qualification Pack , every trainee should score a minimum of 70% of aggregate marks to successfully clear the assessment. 7. In case of *unsuccessful completion*, the trainee may seek reassessment on the Qualification Pack.

MINISTRY OF SKILL DEVELOPMENT
& ENTREPRENEURSHIP
GOVERNMENT OF INDIA

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PMKVY
PRADHAN MANTRI KAUSHAL VIKAS YOJANA

CAREER MAP CNC OPERATOR TURNING
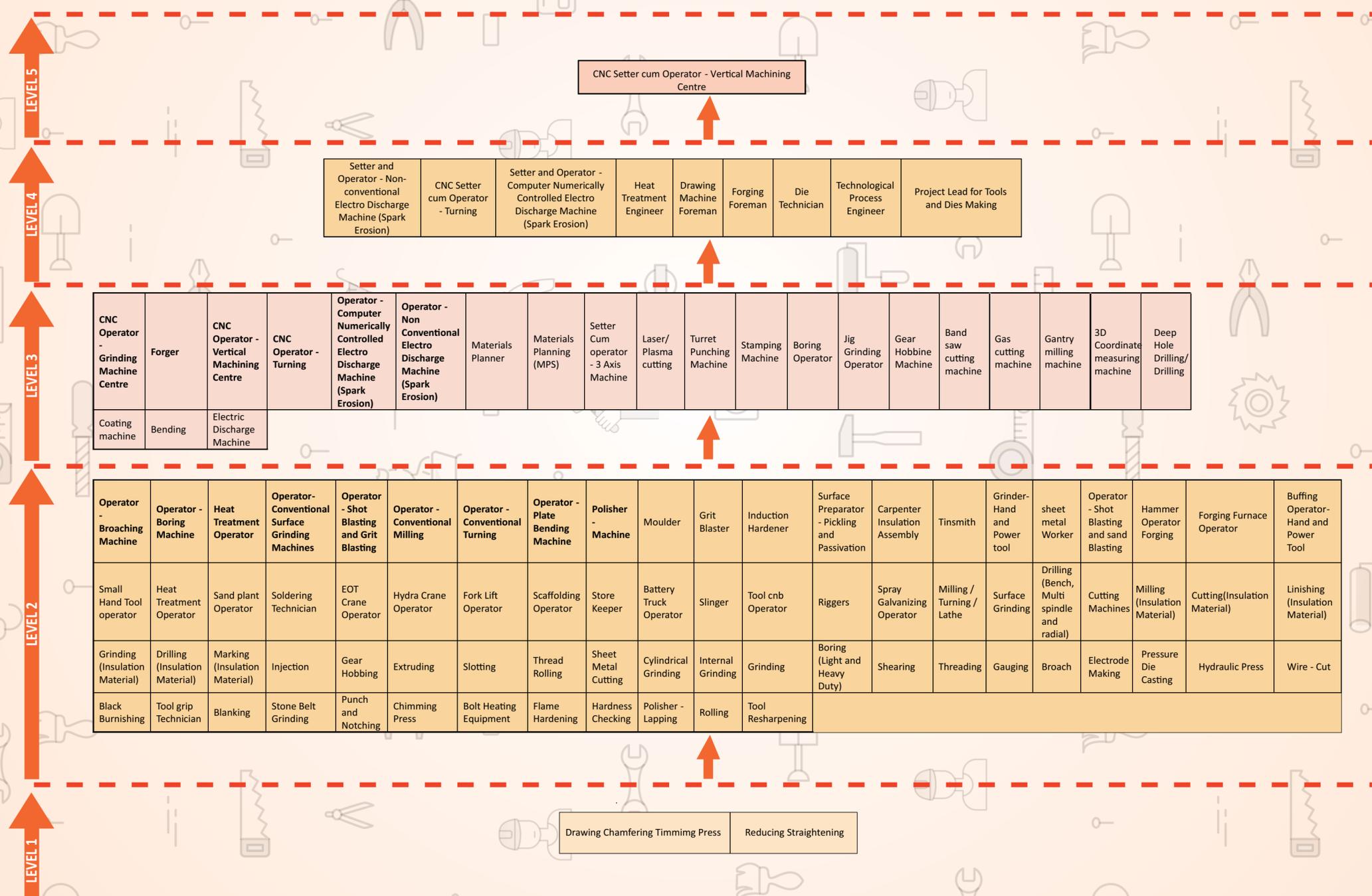
LEVEL 5

CNC Setter cum Operator - Vertical Machining Centre

LEVEL 4

Setter and Operator - Non-conventional Electro Discharge Machine (Spark Erosion)	CNC Setter cum Operator - Turning	Setter and Operator - Computer Numerically Controlled Electro Discharge Machine (Spark Erosion)	Heat Treatment Engineer	Drawing Machine Foreman	Forging Foreman	Die Technician	Technological Process Engineer	Project Lead for Tools and Dies Making

LEVEL 3

CNC Operator - Grinding Machine Centre	Forger	CNC Operator - Vertical Machining Centre	CNC Operator - Turning	Operator - Computer Numerically Controlled Electro Discharge Machine (Spark Erosion)	Operator - Non Conventional Electro Discharge Machine (Spark Erosion)	Materials Planner	Materials Planning (MPS)	Setter Cum operator - 3 Axis Machine	Laser/ Plasma cutting	Turret Punching Machine	Stamping Machine	Boring Operator	Jig Grinding Operator	Gear Hobbine Machine	Band saw cutting machine	Gas cutting machine	Gantry milling machine	3D Coordinate measuring machine	Deep Hole Drilling/ Drilling
Coating machine	Bending	Electric Discharge Machine																	

LEVEL 2

Operator - Broaching Machine	Operator - Boring Machine	Heat Treatment Operator	Operator- Conventional Surface Grinding Machines	Operator - Shot Blasting and Grit Blasting	Operator - Conventional Milling	Operator - Conventional Turning	Operator - Plate Bending Machine	Polisher - Machine	Moulder	Grit Blaster	Induction Hardener	Surface Preparator - Pickling and Passivation	Carpenter Insulation Assembly	Tinsmith	Grinder- Hand and Power tool	sheet metal Worker	Operator - Shot Blasting and sand Blasting	Hammer Operator Forging	Forging Furnace Operator	Buffing Operator- Hand and Power Tool
Small Hand Tool operator	Heat Treatment Operator	Sand plant Operator	Soldering Technician	EOT Crane Operator	Hydra Crane Operator	Fork Lift Operator	Scaffolding Operator	Store Keeper	Battery Truck Operator	Slinger	Tool cnb Operator	Riggers	Spray Galvanizing Operator	Milling / Turning / Lathe	Surface Grinding	Drilling (Bench, Multi spindle and radial)	Cutting Machines	Milling (Insulation Material)	Cutting(Insulation Material)	Linishing (Insulation Material)
Grinding (Insulation Material)	Drilling (Insulation Material)	Marking (Insulation Material)	Injection	Gear Hobbing	Extruding	Slotting	Thread Rolling	Sheet Metal Cutting	Cylindrical Grinding	Internal Grinding	Grinding	Boring (Light and Heavy Duty)	Shearing	Threading	Gauging	Broach	Electrode Making	Pressure Die Casting	Hydraulic Press	Wire - Cut
Black Burnishing	Tool grip Technician	Blanking	Stone Belt Grinding	Punch and Notching	Chimming Press	Bolt Heating Equipment	Flame Hardening	Hardness Checking	Polisher - Lapping	Rolling	Tool Resharpening									

LEVEL 1

Drawing Chamfering Timmimg Press	Reducing Straightening