

## Level Chart: Machinist - Technical Training

Level One (9 Weeks) – COMMON CORE UNITS				Level Two (8 Weeks) – COMMON CORE UNITS			
Code	Unit Title	T	P	Code	Unit Title	T	P
A1	Trade Safety Awareness	7	0	B1	Advanced Drawings	28	0
A2	Safety	7	0	B2	Mechanical Components	4	3
A3	Learning About Work	7	0	B3	Heat Treatment	7	4
A4	Hand Treading	6	4	B4	Introduction to Welding	7	0
A5	Hoisting, Lifting and Rigging	3	4	B5	Power Saws	3	4
A6	Basic Drawings	28	0	B6	Contour Bandsaws	2	5
A7	Fluids and Coolants	5	2	B7	Cutting Machine Tools	3	4
A8	Hand and Power Tools	7	14	B8	Precision Measurement II	3	4
A9	Drills and Drill Presses	7	8	B9	Advanced Conventional Lathe Operation	14	57
A10	Precision Measurement I	10	5	B10	Taper Turning	7	10
A11	Basic Layout	8	6	B11	Conventional Milling Machine Operation	14	57
A12	Introduction to Conventional Lathes	21	0	B12	Introduction to Grinding Machines	3	4
A13	Basic Conventional Lathe Operation	21	84	B13	Computer Numerical Control I (CNC) – Machine-Tools	33	0
A14	Advanced Lathe Drilling, Boring, Reaming, Tapping and Die Threading	14	10				
A15	Introduction to Milling Machines	27	0				
Subtotals		178	137	Subtotals		128	152
Total		315 hours		Total		280 hours	

*Common Core levels for Machinist / Tool and Die Maker*

Level Three (8 Weeks)				Level Four (8 Weeks)			
Code	Unit Title	T	P	Code	Unit Title	T	P
C1	Machinable Materials	7	0	D1	Job Planning	14	0
C2	Material Testing	7	10	D2	Journeyman Trainer	7	0
C3	Precision Layout	4	10	D3	Quality Inspection	7	20
C4	Horizontal/Universal Milling Machine Operation	20	75	D4	Computer Numerical Control (CNC) III – Operation	77	125
C5	Gears and Gear Cutting	20	25	D5	Pre-Interprovincial Exam Review	30	0
C6	Abrasive Finishing	7	7				
C7	Surface Grinders	10	25				
C8	Cylindrical Grinders	5	20				
C9	Computer Numerical Control (CNC) II – Program Code	7	21				
Subtotals		87	193	Subtotals		135	145
Total		280 hours		Total		280 hours	

**T – Theory hours**  
**P – Practical hours**