

Department of Applied Technology & Apprenticeship
586-445-7438

PLASTIC INJECTION MOLD MAKER
RCO Engineering, Inc.

PREREQUISITE	COURSE #	COURSE TITLE	CONTACT HOURS	CREDIT HOURS	COMPLETED DATE \ GRADE
<u>REQUIRED COURSES</u>					
<u>APPLIED MATHEMATICS</u>					
None	ATAM 1150	Shop Arithmetic	32	2	_____
ATAM 1150	ATAM 1160	Algebra	32	2	_____
ATAM 1160	ATAM 1170	Geometry	32	2	_____
ATAM 1170	ATAM 2150	Trigonometry	32	2	_____
ATAM 2150	ATAM 2170	Compound Angles	32	2	_____
<u>DRAFTING & DESIGN</u>					
None	ATDD 1950	Drafting Essentials	32	2	_____
ATDD 1950	ATDD 1960	Conventions & Symbols	32	2	_____
ATDD 1950	ATDD 1970	Three-Dimensional Shape Interpretation	32	2	_____
ATDD 1960	ATDD 1920	Geometric Dimensioning & Tolerancing	32	2	_____
<u>ADVANCED PROCESSES</u>					
None	ATAP 1050	CNC Essentials	64	3	_____
None	ATAP 2330	EDM RAM - G&M Programming & Machining	32	2	_____
None	ATAP 2340	EDM Wire - G&M Programming & Machining	32	2	_____
None	ATAP 2360	3D Cimatron CAD/CAM - Die/Mold Machining	32	2	_____
ATAP 2360	ATAP 2370	3D Computer Aided Mold/Electrode Design	32	2	_____
None	ATAP 2380	Rapid Prototyping & Reverse Engineering	32	2	_____
<u>WELDING</u>					
None	ATWD 1110	Fundamentals of Gas & Arc Welding	32	2	_____
ATWD 1110	ATWD 1150	Gas Tungsten Arc Welding (TIG)	64	3	_____
<u>METAL CRAFT THEORY</u>					
None	ATMT 1210	Benchwork, Drill Presses & Lathes	32	2	_____
None	ATMT 1250	Shapers, Planers, Mills & Grinders	32	2	_____
None	ATMT 1150	Machine Tool Lab 1	48	3	_____
None	ATMT 1300	Characteristics of Ferrous Metals	32	2	_____
None	ATMT 1700	Thermoplastic & Thermosetting Materials	32	2	_____
None	ATMT 1750	Plastic Product Design & Tooling	32	2	_____
None	ATMT 2210	Plastic Mold & Die Cast Die Theory	32	2	_____
<u>APPLIED TECHNOLOGY RELATED</u>					
None	ATTR 1600	Industrial Safety-Skilled Trades	32	2	_____
Total Contact Hours / Credit Hours			880	53	

*The starting level in Mathematics, Drafting & Design and Metal Craft Theory will be determined by the apprentice's background and level of competency at the start of the program.

ELECTIVES

None	ATDD 1900	Machine Tool Blueprint Reading	32	2	_____
ATAM 2150	ATAM 2160	Trigonometry & Shop Application	32	2	_____
None	ATMT 1160	Machine Tool Lab 2	48	3	_____
None	ATAP 2010	Drafting - 2D CAD with MasterCAM	32	2	_____
None	ATAP 2030	2D MasterCAM - Mill Programming & Machining	32	2	_____
ATAP 2030	ATAP 2350	3D MasterCAM - Die/Mold CNC Machining	32	2	_____

Approved by: _____
COMPANY REPRESENTATIVE

DATE

Approved by: _____
MCC APPRENTICESHIP COORDINATOR

DATE