



## Award of Credit Agreement Applied Technical Associate's Degree Options

**Nidec Minster Corporation** and **Edison State Community College** recognize the need to develop a pathway to facilitate the awarding of academic credits by Edison State Community College (ESCC) for technical training conducted by Nidec Minster Corporation. The pathway will avoid unnecessary duplication of content and create a seamless transition to the next step in education for Nidec Minster Corporation employees to obtain an Associate of Technical Studies (ATS) degree in one of three pathways; Mechanical Design, Electro-Mechanical, or Advanced Manufacturing.

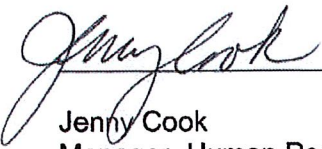
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Students who complete all or a portion of the Nidec Minster Corporation training must apply for admission to ESCC and request that the Talent Development Office send training records to ESCC.


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Credit will be applied for Nidec Minster Corporation training courses completed and will be awarded in a block of credit hours that will apply to the technical requirement of the ATS degree.

Changes can be requested at any time by notification of either party. This agreement will be reviewed every two (2) years.

 2/23/2022  
Jenny Cook  
Manager, Human Resources  
Nidec Minster Corporation

Date

 3-8-22  
Christopher Spradlin  
Provost  
Edison State Community College

Date

**Nidec Minster Corporation and Edison State Community College  
Technical Coursework**

Edison State Community College will provide the remaining 31 or more (as needed) credit hours to obtain the Associate of Technical Studies (ATS) Degree.

Nidec Minster will provide business-specific technical training courses from the list in each option below. Courses must be completed successfully to count towards credit award.

**MECHANICAL DESIGN OPTION**

**Nidec Minster Courses**

<b>Course Number</b>	<b>Course Title</b>	<b>Credits Awarded</b>
520	Foundational Blueprint and Metrology	4.50
516	Introduction to Machining	4.50
115	GD&T Level 1: ASME Y14.5 2009	2.70
116	GD&T Level 2: ASME Y14.5 2009	2.40
104	High Pressure Die Casting Basics	0.06
156	Low Pressure Die Casting Basics	0.09
141	Plating Fundamentals: Metal	0.19
168	Aluminum Casting Fundamentals - 2nd Edit.	0.13
172	Gray Iron Fundamentals - 2nd Edit.	0.16
191	Forgings: Closed Die Processes	0.13
167	Castings: Investment Casting Basics	0.09
531	Stamping Terminology	0.19
532	Stamping Processes	0.19
533	Steel Basics	0.06
525	Heat Treating Processes and Equipment	0.16
526	Heat Treating Testing and Defects	0.13
534	Welding Fundamentals	0.13
185	Gear Fundamentals - 2nd Edit.	0.25
537	Gears: Cylindrical Gear Manufacturing Troubleshooting	0.16
538	Fasteners: Threaded Fastener Specifications	0.06
541	Fasteners: Threaded Fastener Testing and Defects	0.11
540	Fasteners: Threaded Fastener Terminology and Components	0.26
539	Cold Forming Fundamentals (3rd Ed.)	0.16
546	Metal Forming Process Selection	0.08
542	Forgings: Closed Die Terminology and Equipment	0.19
547	Polymers: Injection Molding Terminology	0.15
548	Polymers: Injection Molding Troubleshooting	0.15
217	Mechanical Drives 1	2.70
218	Mechanical Drives 2	3.90
219	Mechanical Drives 3	4.35
220	Mechanical Drives 4	2.25
232	Additive Manufacturing: Stereolithography [2nd Ed.]	0.33
123	Vacuum Process Fundamentals	0.33

Course Number Continued	Course Title Continued	Credits Awarded Continued
530	Ductile Iron Fundamentals [2nd Ed.]	0.50
131	Bearing Fundamentals [2nd Ed.]	0.42
177	Belt Classifications: V Belts [2nd Ed.]	0.17
178	Belt Classifications: Poly V Belts [2nd Ed.]	0.13
403	Belt Classifications: Special Belts [2nd Ed.] Description	0.17
179	Belt Classifications: Synchronous Belts [2nd Ed.]	0.13
549	Gearbox Basics	0.33
550	Bolted Joint Basics	0.25
551	8D Problem-Solving Basics	0.17
552	Sensors: Measurement Concepts	0.25
553	Automation Basics	0.25
554	Compressors: Ancillary Equipment	0.50
233	Oil Seal Fundamentals: Rotary Applications [2nd Ed.]	0.42
555	Hydraulic System Fundamentals	0.33
<b>TOTAL</b>		<b>35.21</b>

-AND-

Edison State Technical Courses			Edison State General Education Courses		
EGR 110S	Print Reading and Sketching	2	ENG 121S	English Composition I	3
ELT 110S	Circuits I	3	COM 121S	Fundamentals of Communication	3
MFG 114S	Survey of Manufacturing Processes	4	MTH 123S	Trigonometry	3
MFG 120S	Materials Technology	3		Soc/Behavioral Science Elective	3
MET 130S	Auto CAD I	3		Humanities Elective	3
EGR 240S	Analytical Troubleshooting	3			
Total		<b>18</b>	Total		<b>15</b>

**A.T.S., MECHANICAL DESIGN TOTAL DEGREE CREDITS: 63**



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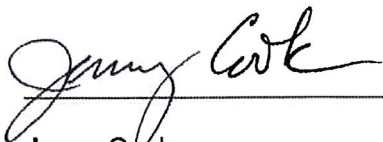
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Jenny Cook  
 Manager, Human Resources  
 Nidec Minster Corporation

2-23-2022

Date



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 Provost  
 Edison State Community College

3-8-22  
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## Nidec Minster Corporation and Edison State Community College Technical Coursework

Edison State Community College will provide the remaining 31 or more (as needed) credit hours to obtain the Associate of Technical Studies (ATS) Degree.

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### ADVANCED MANUFACTURING OPTION

Course Number	Course Number and Title	Awarded Credits
104	High Pressure Die Casting Basics	0.0625
127	Fixturing Fundamentals for Machining - 2nd Edit	0.125
140	CNC Machining Center-Programming, Setup, and Operation 1	2.25
141	Plating Fundamentals: Metal	0.1875
143	CNC Machining Center-Programming, Setup, and Operation 2	2.25
151	Bonded Sand: Horizontally Parted Molds - 2nd Edit.	0.0625
152	Bonded Sand: Mold Patterns - 2nd Edit.	0.046875
156	Low Pressure Die Casting Basics	0.09375
158	Bonded Sand Fundamentals	0.125
161	Bonded Sand: Vertically Parted Molds - 2nd Edit	0.046875
167	Castings: Investment Casting Basics	0.09375
168	Aluminum Casting Fundamentals - 2nd Edit.	0.125
172	Gray Iron Fundamentals - 2nd Edit.	0.15625
173	Cupola Furnace Fundamentals - 2nd Edit.	0.375
174	Cupola Furnace Operations - 2nd Edit.	0.25
175	Castings: Foundry Cleaning Room Equipment	0.125
185	Gear Fundamentals - 2nd Edit.	0.25
191	Forgings: Closed Die Processes	0.125
193	Polymer Fundamentals - 2nd Edit	0.1875
194	Steel Fundamentals - 2nd Edit.	0.15625
504	Precision Grinding: Abrasive Wheel Safety	0.125
510	Learning to Operate a FANUC CNC Using the FANUC Simulator	2.25
511	Machining: Machine Tool Fundamentals	0.25

Course Number and Title	Awarded Credits
512 Machining: Hole Process Fundamentals	0.15625
513 Machining: Surface Process Fundamentals	0.125
514 Machining: Turning Tool and Process Basics	0.09375
516 Introduction to Machining	4.5
520 Foundational Blueprint and Metrology	4.5
525 Heat Treating Processes and Equipment	0.15625
526 Heat Treating Testing and Defects	0.125
527 Heat Treating Safety	0.0625
531 Stamping Terminology	0.1875
532 Stamping Processes	0.1875
533 Steel Basics	0.0625
534 Welding Fundamentals	0.125
536 Gear Manufacturing: Spur and Helical Gears	0.3125
537 Gears: Cylindrical Gear Manufacturing Troubleshooting	0.15625
538 Fasteners: Threaded Fastener Specifications	0.0625
539 Cold Forming Fundamentals (3rd Ed.)	0.15625
109 CNC Turning Center-Programming, Setup, and Operation 1	2.7
110 CNC Turning Center-Programming, Setup, and Operation 2	2.7
541 Fasteners: Threaded Fastener Testing and Defects	0.11
540 Fasteners: Threaded Fastener Terminology and Components	0.26
545 Machining: Cylindrical Grinding Fundamentals [2nd Ed.]	0.25
546 Metal Forming Process Selection	0.075
542 Forgings: Closed Die Terminology and Equipment	0.187
547 Polymers: Injection Molding Terminology	0.15
548 Polymers: Injection Molding Troubleshooting	.15
107 CNC Milling Machines 1 - Conversational	2.7
515 Intro to Turning & Grinding	2.7
<b>TOTAL</b>	<b>32.637</b>

-AND-

Edison State Technical Courses		Edison State General Education Courses			
MET 130S	Auto CAD I	3	ENG 121S	English Composition	3
EGR 240S	Analytical Troubleshooting	3	COM 121S	Fundamentals of Communication	3
IMT 244S	Lean Systems	4	MTH 123S	Trigonometry	3
MGT 223S	Project Management	3	Soc/Behavioral Science Elective		3
MFG 120S	Materials Technology	3	Humanities Elective		3
	Technical Elective	3			
	Total	19			15

**A.T.S., ADVANCED MANUFACTURING TOTAL DEGREE CREDITS: 61**



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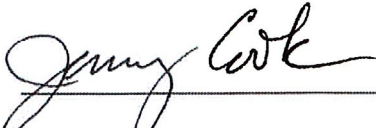
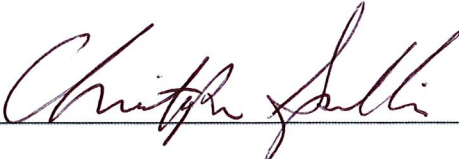
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**ELECTRO-MECHANICAL OPTION**

**Nidec Minster Courses**

Course Number and Title	Awarded Credits
205 Hydraulic Systems 1: Basic	2.70
206 Hydraulic Systems 2: Intermediate	2.70
207 Hydraulic Systems 3: Advanced	1.90
208 Hydraulic Systems 4: Electro-Fluid Power Systems	3.20
209 Hydraulic Troubleshooting	3.80
221 Pneumatic Systems 1	1.90
222 Pneumatic Systems 2	1.80
223 Pneumatic Systems 3	1.90
224 Pneumatic Troubleshooting	2.40
180 Electrical Power Introduction	0.04
210 Industrial Electricity 1	2.70
211 Industrial Electricity 2	2.10
212 Industrial Electricity 3	2.70
213 Industrial Electricity 4	1.80
214 Industrial Electricity 5	2.40
215 Industrial Electricity 6	3.80
121 Central Lubrication	8.44
131 Bearing Fundamentals	0.19
144 Engine Fundamentals: Internal Combustion	0.34
176 Belt Classifications: Round and Flat Belts [2nd Ed.]	0.04
177 Belt Classifications: V Belts [2nd Ed.]	0.04
178 Belt Classifications: Poly V Belts [2nd Ed.]	0.04
179 Belt Classifications: Synchronous Belts [2nd Ed.]	0.04

Course Number and Title	Awarded Credits
181 Gears: Spur and Helical Gear Terminology [3rd Ed.]	0.04
182 Gear Classifications and Term: Bevels and Hypoid Gears	0.26
197 Transmission Fundamentals: Automatic	0.15
217 Mechanical Drives 1	2.7
218 Mechanical Drives 2	3.9
219 Mechanical Drives 3	4.35
220 Mechanical Drives 4	2.25
<b>TOTAL</b>	<b>60.62</b>

-AND-

Edison State Technical Courses	Edison State General Education Courses
EGR 240S Analytical Troubleshooting	3 ENG 121S I English Composition
MFG 110S Metrology	3 COM 121S Fundamentals of Communication
MFG 114S Survey of Manufacturing Process	4 MTH 123S Trigonometry
MFG 120S Materials Technology	3 Soc/Behavioral Science Elective
IMT 112S Environmental Health and Safety	3 Humanities Elective
Total	16 Total
	15

**A.T.S., ELECTRO-MECHANICAL TOTAL DEGREE CREDITS: 61**