

# NORTH AMERICAN EQUIPMENT DEALERS ASSOCIATION

## ***Agricultural Equipment Technician – Apprentice***

<b>Course Title</b>	<b>Number</b>	<b>Duration</b>
<b><i>Year 1 – 145 hours -- \$982 per trainee</i></b>		
Jobs, Companies, and the Economy: Basic Concepts for Employees	186034	5 hours
Trades Safety: Getting Started	186001	5 hours
Working Safely with Chemicals	186002	5 hours
Fire Safety	186003	5 hours
Safe Handling of Pressurized Gasses and Welding	186004	5 hours
Materials Handling Safety	186006	5 hours
Basic Industrial Math	Block X21	
Addition and Subtraction	186008	5 hours
Multiplication and Division	186009	5 hours
Fractions, Percents, Proportions, and Angles	186010	5 hours
Metric System	186011	5 hours
Formulas	186012	5 hours
Introduction to Algebra	186013	5 hours
Logical Thinking – Troubleshooting Skills	186073	5 hours
Common Hand Tools, Part 1	186052	5 hours
Common Hand Tools, Part 2	186053	5 hours
Precision Measuring Instruments, Part 1	186068	10 hours
Electric Drilling and Grinding Tools	186054	5 hours
Power Cutting Tools	186055	5 hours
Pneumatic Hand Tools	186056	5 hours
Jacks, Hoists, and Pullers	186060	5 hours
Fasteners	286095	10 hours
Skills for Using Personal Computers	JJ1001	15 hours
Small Engine Parts and Operation	089017	5 hours
Small Engine Lubrication and Cooling Systems	089018	5 hours
Small Engine Ignition Systems	089019	5 hours
<b><i>Year 2 – 145 hours -- \$690 per trainee</i></b>		
Small Engine Electrical Systems	089020	5 hours
Small Engine Fuel Systems	089021	5 hours
Small Engine Disassembly	089022	5 hours
Small Engine Rebuild, Part 1	089023	5 hours
Small Engine Rebuild, Part 2	089024	5 hours
Small Engine Reassembly	089025	5 hours
Servicing Outdoor Power Equipment, Part 1	089029	5 hours
Servicing Outdoor Power Equipment, Part 2	089030	5 hours
Mechanical Power Transmission	286015	10 hours
Belt Power Transmission, Part 1	2607A	10 hours
Belt Power Transmission, Part 2	2607B	10 hours

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Lubrication, Part 1	286091	10 hours
Lubrication, Part 2	286092	10 hours
Bearings and Seals, Part 1	286093	10 hours
Bearings and Seals, Part 2	286094	10 hours
Medium / Heavy Duty Truck Engines (055901 – part 1 – only)	086E06 – part 1	35 hours
 <b><i>Year 3 – 145 hours -- \$684 per trainee</i></b>		
Nature of Electricity	086001	5 hours
Circuit Analysis and Ohm's Law	086002	5 hours
Capacitors and Inductors	086003	5 hours
Magnetism and Electromagnetism	086004	5 hours
DC Motors and Generator Theory	086006	5 hours
Reading Electrical Schematic Diagrams	006022	10 hours
Industrial Direct Current Motors	086051	10 hours
Basic Test Equipment	086025	5 hours
Troubleshooting with Volt-Ohm-Milliamp Meters (VOMs)	086026	5 hours
Hydraulic Power Basics	286060	10 hours
Hydraulic Components: Actuators, Pumps, and Motors	286061	10 hours
Hydraulic Components: Conductors, Conditioners, and Fluids	286062	10 hours
Hydraulic Power System Control	286063	10 hours
Interpreting Hydraulic System Schematics	286064	10 hours
Hydraulic Power System Troubleshooting	286065	10 hours
Fundamentals of Welding, Part1	286025	10 hours
Fundamentals of Welding, Part2	286066	10 hours
Heating and Air-Conditioning Systems (Automotive)	004028	10 hours

Total Estimated Study Time: 435 hours

Prepared by Harold Ayers, Education Direct

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