

# AVAILABLE eASSESSMENTS

Amatrol's eAssessments cover an extensive range of technologies. Assign assessments to determine an individual's current skill level. Available in either eAssessment Standard or eAssessment Express.

TECHNOLOGY CATEGORIES	AVAILABLE eASSESSMENTS	MODULES COVERED	SAMPLE TOPICS
Automation	36	147	Mechatronics, Human Machine Interface, PLC Troubleshooting, Allen-Bradley and Siemens PLCs, Robotics and Computer Programming, Machine Vision, RFID, Barcode ID
Electrical	26	92	Motor Control, AC/DC Electrical Systems, Relay Control, Electrical Fabrication, Motor Braking, Sensors, Motor Troubleshooting
Electronics	41	222	PLCs, Electronic Drives, Motion Control, PLC Troubleshooting, Motor Drives, Power and Control Electronics, Variable Frequency Drives
Fluid Power	18	82	Hydraulic and Pneumatic Troubleshooting, Electronic Sensors, Basic, Intermediate, and Advanced Hydraulics and Pneumatics, Electro-Fluid Power Systems, Hydraulic Maintenance
Green Technology	15	65	Wind Concepts, Turbine Troubleshooting, Solar Concepts, Solar Site Analysis, Solar Thermal Troubleshooting, Solar Thermal Installation
Lean Manufacturing	9	14	5S, Total Productive Maintenance, Poka-Yoke, Lean Process Flow, Visual Workplace, Kaizen, Value Stream Mapping, Six Sigma
Machining	7	27	Machine Tools, CNC Machines, Fanuc CNC Control, Turning, Machining Centers, Grinding, Gear Manufacturing, Tapping
Manufacturing Processes	20	61	Welding, Product Finishing, Production Assembly, Print Reading, CAD, Wiring Harness Assembly, Fasteners, Gaskets, Geometric Dimensioning and Tolerancing
Materials	11	33	Plastic Mold Design, Structural Engineering, Surveying, Materials Engineering, Heat Treating, Plastics, Composites, Ceramics
Mechanical	32	106	Pump Systems, Rigging, Mechanical Drives, Central Lubrication, Mechanical Fabrication, Laser Shaft Alignment
Process Control	16	64	Thermal Process Control, Analytical Process Control, Pressure Process Control Systems, Level and Flow Process Control Systems, HART Process Control, Foundation Fieldbus Process Control
Quality Assurance	6	34	Metrology, Measurement Tools, Precision Gauging, Surface Plates, Gauge Blocks, Specialty Micrometers, Statistical Process Control
Safety	6	6	Safety Practices and Regulations, Personal Protective Equipment, Hazardous Communication, Confined Spaces, Overhead Crane Safety
Thermal	10	44	Thermal Troubleshooting, Air Conditioning / Heat Pump, Steam Systems, Geothermal Troubleshooting, Environmental Applications
Workplace Effectiveness	4	17	Enterprise Systems, Mathematics, Trigonometry, Communication Skills, Conflict Resolution, Working in Groups



## eASSESSMENT

## IDENTIFY SKILLS & REDUCE TRAINING TIME



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# AMATROL's eASSESSMENT IDENTIFIES SKILL GAPS FOR TARGETED TRAINING!

Now with 2 Options to Fit Your Needs



## eASSESSMENT STANDARD

Identify an individual's knowledge gaps for a topic at an objective level, to build the right training plan for your needs. It requires more time than eAssessment Express, but provides additional insight into an individual's abilities.

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User	Course Number	Course Title	Content Name	Content Title	Date Started	Last Accessed	eAssessment	Pre-Quiz	Quiz	Quiz Retakes	Skill Tracking
Carroll, Seerity (seerity@amatrol.com)	W1112B-AA00UEH-E1	Power and Control Electronics (990-ELE1)	W1112B-AA00UEH-E1	Oscilloscopes			30%				NS
Carroll, Seerity (seerity@amatrol.com)	W1112B-AA00UEH-E1	Power and Control Electronics (990-ELE1)	W1112B-AA00UEH-E1	Linear Power Supplies			30%				NS
Carroll, Seerity (seerity@amatrol.com)	W1112B-AA00UEH-E1	Power and Control Electronics (990-ELE1)	W1112B-AA00UEH-E1	Power Supply Filtration and Regulation			7%				NS

Questions

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What type of level sensing element is indicated by the symbol below?

☐ Differential-Pressure Level Transmitter

☐ Glass Gauge

☐ Float

☐ Paddlewheel or Lever

Flag

Reset

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W-12216-XX-04 Assembly Drawings and Fasteners

Objective 1: Describe the five key areas of information located on a print 93%

Objective 2: Describe the function of a title block 67%

Objective 3: Describe the function of a change block 68%

Objective 4: Describe the function of a materials list 93%

- Cover 15 Technology Categories with 350+ Assessments
- Ascertain Micro Level Assessment Level of Topic Mastery
- Assign Assessments to an Individual Using Both *eAssessment Standard*, and *eAssessment Express*, Depending On Your Needs

## eASSESSMENT EXPRESS

Determine knowledge gaps quickly and comprehensively, at a modular level. eAssessment Express requires only 35% as many questions AS Standard. eAssessment Express allows for a more targeted training plan, entry-level evaluation, or confirmation of pre-existing know-how.

- 1 Million+ Results Evaluated From *eAssessment Standard* to Create Fast, Comprehensive Assessments
- Great Option for Fast Annual Re-Evaluations
- Determine Targeted Training for Individuals Instead of Grouping Everyone Into Extensive/Expensive Training Classes

Questions

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What dimensions are missing from this drawing to fully dimension this object's width and its parallel surfaces?

☐ A-D

☐ A-D-B

☐ D-C-B

☐ A-B-C-D

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Columns

User	Course Number	Course Title	Content Name	Content Title	eAssessment Express	Pre-Quiz	Quiz
Carroll, Seerity (seerity@amatrol.com)	W1112B-AA00UEH-E1	Power and Control Electronics (990-ELE1)	W1112B-AA00UEH-E1	Oscilloscopes	100%		
Seaver, Lindsay (seaver@amatrol.com)	W1112B-AA00UEH-E1	TEST Vibration Analysis Independent (Amatrol eBook)	W1112B-AA00UEH-E1	Linear Power Supplies	100%		
Seaver, Lindsay (seaver@amatrol.com)	W04A101-X000ZEN-E1	Principles of Advanced Manufacturing	W04A101-X000ZEN-E1	Introduction	100%	0%	100%
Seaver, Lindsay (seaver@amatrol.com)	W04A101-X000ZEN-E1	Principles of Advanced Manufacturing	W04A101-X000ZEN-E1	Technology and Advanced Manufacturing	100%	0%	7%
Seaver, Lindsay (seaver@amatrol.com)	W04A101-X000ZEN-E1	Principles of Advanced Manufacturing	W04A101-X000ZEN-E1	Manufacturing Metrics	100%	0%	10%
Seaver, Lindsay (seaver@amatrol.com)	W04A101-X000ZEN-E1	Principles of Advanced Manufacturing	W04A101-X000ZEN-E1	Plant Layout	100%	0%	13%
Seaver, Lindsay (seaver@amatrol.com)	W04A101-X000ZEN-E1	Principles of Advanced Manufacturing	W04A101-X000ZEN-E1	Advanced Manufacturing Plant Organization	100%	0%	0%
Seaver, Lindsay (seaver@amatrol.com)	W07E1-SA00ZEN-E1	Machine Tools 1	W07E1-SA00ZEN-E1	Band Saw Operation	80%		
Seaver, Lindsay (seaver@amatrol.com)	W2002D-XA00ZEN-A00	Mechanical Drives 1 - Wind Technology	W2002D-XA00ZEN-A00	Power Transmission Systems	7%		

## Save Money with Targeted Training!

Training is expensive due to lost production time. eAssessments empower you to identify actual skill gaps so that you can minimize training time.

## Maximize Production Time!

Hydraulic Pump Troubleshooting

Objective 1: Define Hydraulic Troubleshooting and Explain Its Importance

Knowledge Check: Hydraulic Troubleshooting

Which of the following is not a common symptom of machine malfunction?

☐ Excessive Noise

☐ Defective Products

☐ Unexpected Pressure Change

☐ Continuous Flow

Troubleshooting Hydraulic Systems

Objective 1: Describe Three Categories of Hydraulic System Faults and Give an Example of Each

Machine Sequence-Related Faults

Sequence-related faults are failures related to the order in which events occur. They include actuator movements and other actions such as a pressure or speed change. Examples include:

- No movement of actuator (sequence stops)
- Actuator moves in wrong direction
- Pressure change does not occur in a multiple pressure circuit
- Speed change does not occur in a multiple speed circuit (i.e., rapid advance/slow speed)

Sequence-related faults often indicate that an input sensor, DOV, or the controller has failed

Injection Molding Machine Sequence Stopped

eLearning Available 24/7

Optional Equipment for Hands-On Training and Skill-Building

