

NIMS Certification Knowledge Requirements

Earning NIMS credentials gives individuals a competitive edge in the job marketplace. Why? NIMS credentials confirm that a candidate has demonstrated that their skill set meets established industry standards. Whether an individual is beginning their career or adding to their current skills, NIMS credentials offer the flexibility and stackability to fit within any learning or promotion plan.

For individuals looking to advance their careers in the manufacturing industry NIMS has created the following certifications: Maintenance Operations Specialist, Electronic Controls Systems Specialist, Pneumatic Systems Specialist, Hydraulic Systems Specialist, Mechanical Systems Specialist, Electrical Systems Specialist, and Industry 4.0 Smart Production Specialist.

Intelitek has aligned our curriculum with these NIMS certifications to better support students in reaching their professional goals. To meet the knowledge requirements for their desired NIMS certification students will need to complete the corresponding course line-up.



Maintenance Operations Specialist

Maintenance Operations Specialists repair and maintain equipment to operating condition.

Part #	Product Family	Course Title
88-BA03-0001	Foundations of Manufacturing	Lubrication for Technicians
88-BA04-0001	Foundations of Manufacturing	Mechanical Fasteners
88-BA05-0001	Foundations of Manufacturing	Hand Tools
88-BA06-0001	Foundations of Manufacturing	Power Tools
88-3202-0000	Foundations of Manufacturing	Safety Fundamentals
88-L0T0-0000	Foundations of Manufacturing	L0T0: Industrial Safety - Lockout/Tagout
88-8014-0001	Foundations of Manufacturing	Measurement and Quality Control
88-ME01-0001	JM Mechanical Workbench	Basic Machines
88-ME03-0001	JM Mechanical Workbench	Machine Shafts and Keys
88-ME04-0001	JM Mechanical Workbench	Bearings
88-ME05-0001	JM Mechanical Workbench	Belt Drives
88-ME06-0001	JM Mechanical Workbench	Chain Drives
88-ME11-0001	JM Mechanical Workbench	Laser Alignment
88-ME12-0001	JM Mechanical Workbench	Vibration Analysis
88-ME13-0001	JM Mechanical Workbench	Bearing Service
88-EA01A-0000	JM Electrical	Electrical Circuits
88-EA04-0000	JM Electrical Control	Electric Motors
88-3301-0010	Industry 4.0	Introduction to Industry 4.0

Electronic Controls Systems Specialist

Electronic Control Systems Specialists repair and maintain electronic control systems and associated components such as programmable logic controllers, motor control systems, sensors, and power supplies to keep electronic controls in operating condition.

Part #	Product Family	Course Title
88-3202-0000	Foundations of Manufacturing	Safety Fundamentals
88-LOTO-0000	Foundations of Manufacturing	LOTO: Industrial Safety - Lockout/Tagout
88-EB01B-0000	JM Power Electronics	Digital Multimeter
88-EB02B-0000	JM Power Electronics	Single-Phase and Three-Phase Power Supplies
88-EB02A-0000	JM Power Electronics	DC Power Supplies
88-EA01B-0000	JM Electrical	Resistors and Conductors
88-EA01A-0000	JM Electrical	Electrical Circuits
88-EA09-0000	JM Electrical Control	Pilot Devices
88-EA12-0000	JM Electrical Control	Electric Motor Drives
88-EA07-0000	JM Electrical Control	Electromagnetic Motor Starters
88-EA08-0000	JM Electrical Control	Relays, Timers and Time Delay Relays
88-EA02-0000	JM Electrical Control	Overload/Overcurrent Protection and Monitoring
88-EA01D-0000	JM Electrical Control	Motors and Generators
88-EA01B-0000	JM Electrical Control	Resistors and Conductors
88-3300-0001	Automation and Mechatronics	Smart Devices for Industry 4.0

ALONG WITH ONE OF THE FOLLOWING

88-8220-0010	Automation and Mechatronics	PLC with Siemens S7-1200
88-8210-0010	Automation and Mechatronics	PLC with AB MicroLogix
88-8230-0010	Automation and Mechatronics	PLC with AB CompactLogix

Pneumatic Systems Specialist

Pneumatic Systems Specialists repair and maintain pneumatic systems and associated components such as compressors, valves, regulators, cylinders, and filters to keep equipment in operating condition.

Part #	Product Family	Course Title
88-8070-0010	Automation and Mechatronics	Pneumatics 1 with JMST
88-8070-0020	Automation and Mechatronics	Pneumatics 2 with JMST
88-8070-0030	Automation and Mechatronics	Pneumatics 3 with JMST

Hydraulic Systems Specialist

Hydraulic Systems Specialists repair and maintain hydraulic systems and associated components such as pumps, valves, cylinders, motors, and filters to keep hydraulic systems in operating condition.

Part #	Product Family	Course Title
88-3202-0000	Foundations of Manufacturing	Safety Fundamentals
88-LOTO-0000	Foundations of Manufacturing	LOTO: Industrial Safety - Lockout/Tagout
88-EA01A-0000	JM Electrical	Electrical Circuits
88-8071-0010	Automation and Mechatronics	Hydraulics 1 with JMST
88-8071-0020	Automation and Mechatronics	Hydraulics 2 with JMST
88-8071-0030	Automation and Mechatronics	Hydraulics 3 with JMST

Mechanical Systems Specialist

Mechanical Systems Specialists repair and maintain mechanical systems and associated components such as belts, chains, gears, bearings, sprockets, shafts, and couplings to keep mechanical systems in operating condition.

Part #	Product Family	Course Title
88-3202-0000	Foundations of Manufacturing	Safety Fundamentals
88-LOTO-0000	Foundations of Manufacturing	LOTO: Industrial Safety - Lockout/Tagout
88-BA03-0001	Foundations of Manufacturing	Lubrication for Technicians
88-BA04-0001	Foundations of Manufacturing	Mechanical Fasteners
88-BA05-0001	Foundations of Manufacturing	Hand Tools
88-BA06-0001	Foundations of Manufacturing	Power Tools
88-8014-0001	Foundations of Manufacturing	Mechanical Measurement and Quality Control
88-EA01A-0000	JM Electrical	Electrical Circuits
88-EA01D-0000	JM Electrical	Motors and Generators
88-EA04-0000	JM Electrical	Electric Motors
88-EB01B-0000	JM Electrical	Digital Multimeter
88-ME01-0001	JM Mechanical	Basic Machines
88-ME03-0001	JM Mechanical	Machine Shafts and Keys
88-ME04-0001	JM Mechanical	Bearings
88-ME05-0001	JM Mechanical	Belt Drives
88-ME06-0001	JM Mechanical	Chain Drives
88-ME07-0001	JM Mechanical	Machine Shaft Couplings
88-ME08-0001	JM Mechanical	Gear Drives
88-ME11-0001	JM Mechanical	Laser Alignment
88-ME12-0001	JM Mechanical	Vibration Analysis
88-ME13-0001	JM Mechanical	Bearing Service

Electrical Systems Specialist

Electrical Systems Specialists repair and maintain electrical systems and associated components such as wiring, fuses and circuit breakers, switches, relays, solenoids, and motors to keep electrical systems in operating condition.

Part #	Product Family	Course Title
88-3202-0000	Foundations of Manufacturing	Safety Fundamentals
88-LOTO-0000	Foundations of Manufacturing	LOTO: Industrial Safety - Lockout/Tagout
88-EA01A-0000	JM Electrical	Electrical Circuits
88-EA01B-0000	JM Electrical	Resistors and Conductors
88-EA01C-0000	JM Electrical	LCR Circuits
88-EA01D-0000	JM Electrical	Motors and Generators
88-EA02-0000	JM Electrical	Overload/Overcurrent Protection and Monitoring
88-EA03-0000	JM Electrical	Transformers
88-EA04-0000	JM Electrical	Electric Motors
88-EA07-0000	JM Electrical	Electromagnetic Motor Starters
88-EA08-0000	JM Electrical	Relays, Timers and Time Delay Relays
88-EA09-0000	JM Electrical	Pilot Devices
88-EB01B-0000	JM Electrical	Digital Multimeter
88-EB02B-0000	JM Electrical	Single-Phase and Three-Phase Power Supplies
88-EB04-0000	JM Electrical	Electronic Timers
88-EB06-0000	JM Electrical	Basic Servo Motor Drive
88-ME01-0001	JM Mechanical	Basic Machines
88-ME09-0001	JM Mechanical	Machine Speed Reducers
88-ME12-0001	JM Mechanical	Vibration Analysis

Industry 4.0 Smart Production Specialist

I4.0 Smart Production Specialists utilize data and visualization tools to monitor operations, troubleshoot networked equipment and make decisions.

Part #	Product Family	Course Title
88-3109-0000	Foundations of Manufacturing	Introduction to Lean Manufacturing
88-3202-0000	Foundations of Manufacturing	Safety Fundamentals
88-8014-0001	Foundations of Manufacturing	Measurement and Quality Control
88-EA01A-0000	JM Electrical	Electrical Circuits
88-EA08-0000	JM Electrical Control	Relays, Timers and Time Delay Relays
88-5005-0000	Robotics	Fundamentals of Robotics-Yaskawa YRC Controller
88-3301-0010	Industry 4.0	Intro to Industry 4.0
88-3301-0011	Industry 4.0	Intro to IoT and Connectivity
88-3301-0014	Industry 4.0	Intro to Advanced Manufacturing for Industry 4.0
88-3301-0012	Industry 4.0	Intro to Networking and Cybersecurity
88-3301-0013	Industry 4.0	Intro to Big Data for Industry 4.0
88-3301-0018	Industry 4.0	Software Technologies for Industry 4.0
88-3301-0019	Industry 4.0	Advanced Data Science for Industry 4.0
88-3301-0016	Industry 4.0	Advanced IIoT and Connectivity
88-3300-0001	Automation and Mechatronics	Smart Devices for Industry 4.0



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