

Start Date End Date Days Course Course Code Course Description Start Time End Time Building Room

Engineering and Advanced Technology Courses and Schedule

12/14/20	12/18/20	M-F	Advanced PLC Maintenance and Troubleshooting	CMNF 8280	Prerequisite: CMNF 8279/Intermediate PLC-2 This 40-hour course is designed to provide advanced skills in PLC. The course provides an understanding of PLC hardware, system architecture and programming software. Course topics include setup, instruction sets, hardware, advanced software programming and troubleshooting.	8:00 AM	5:00 PM	MTCB	136
11/9/20	11/13/20	M-F	Advanced PLC Maintenance and Troubleshooting	CMNF 8280	Prerequisite: CMNF 8279/Intermediate PLC-2 This 40-hour course is designed to provide advanced skills in PLC. The course provides an understanding of PLC hardware, system architecture and programming software. Course topics include setup, instruction sets, hardware, advanced software programming and troubleshooting.	8:00 AM	5:00 PM	MTCB	137
10/5/20	10/7/20	M-W	Advanced Product Quality Planning (APQP) PPAP & Workshop	CQLY 8025	Prerequisite: None This 8-hour course focuses on the implementation and execution of APQP (Advanced Product Quality Planning) processes. APQP is a structured method of defining and establishing the steps necessary to ensure that a product satisfies the customer's needs. Effective product quality planning depends on a company's top management's commitment to the effort required in meeting customer specifications.	8:00 AM	5:00 PM	MTCB	136
10/21/20	10/23/20	W-F	Advanced Product Quality Planning (APQP) PPAP & Workshop	CQLY 8025	Prerequisite: None This 8-hour course focuses on the implementation and execution of APQP (Advanced Product Quality Planning) processes. APQP is a structured method of defining and establishing the steps necessary to ensure that a product satisfies the customer's needs. Effective product quality planning depends on a company's top management's commitment to the effort required in meeting customer specifications.	8:00 AM	5:00 PM	MTCB	136

10/26/20	11/6/20	M-F	Advanced Product Quality Planning (APQP) PPAP & Workshop	CQLY 8025	Prerequisite: None This 8-hour course focuses on the implementation and execution of APQP (Advanced Product Quality Planning) processes. APQP is a structured method of defining and establishing the steps necessary to ensure that a product satisfies the customer's needs. Effective product quality planning depends on a company's top management's commitment to the effort required in meeting customer specifications.	5:00 PM	9:00 PM	MTCB	136
11/9/20	11/11/20	M-W	Advanced Product Quality Planning (APQP) PPAP & Workshop	CQLY 8025	Prerequisite: None This 8-hour course focuses on the implementation and execution of APQP (Advanced Product Quality Planning) processes. APQP is a structured method of defining and establishing the steps necessary to ensure that a product satisfies the customer's needs. Effective product quality planning depends on a company's top management's commitment to the effort required in meeting customer specifications.	8:00 AM	5:00 PM	MTCB	136
11/30/20	12/2/20	M-W	Advanced Product Quality Planning (APQP) PPAP & Workshop	CQLY 8025	Prerequisite: None This 8-hour course focuses on implementation and execution of APQP (Advanced Product Quality Planning) processes. APQP is a structured method of defining and establishing the steps necessary to ensure that a product satisfies the customer's needs. Effective product quality planning depends on a company's top management's commitment to the effort required in meeting customer specifications.	8:00 AM	5:00 PM	Remote	Remote
10/12/20	10/16/20	M-F	Advanced Robotic Operations	CMNF 8270	Prerequisite: CMNF 8241/FANUC Robotics Operations This 40-hour course is designed to provide the advanced skills needed to operate and program Fanuc robots. Course topics include collision guard, condition monitor function, executing multiple program (multi-tasking), program shift utility and systems operations.	8:00 AM	5:00 PM	MTCB	124

11/16/20	11/20/20	M-F	Advanced Robotic Operations	CMNF 8270	Prerequisite: CMNF 8241/FANUC Robotics Operations This 40-hour course is designed to provide the advanced skills needed to operate and program Fanuc robots. Course topics include collision guard, condition monitor function, executing multiple program (multi-tasking), program shift utility and systems operations.	8:00 AM	5:00 PM	MTCB	124
12/14/20	12/18/20	M-F	Allen Bradley HMI	CMNF 8287	Prerequisite: None This 40-hour course is designed to provide skills in Human Machine Interface (HMI) fundamentals. This course provides an understanding of HMI functions hardware and applications. Course topics include Programmable Logic Controllers (PLC) to HMI instructions, hardware, HMI graphics, and creating troubleshooting messages displayed on HMI. This course is specific to Allen Bradley HMIs.	8:00 AM	5:00 PM	MTCB	137
11/19/20	11/20/20	Th-F	AutoCad-Advanced	CCAD 8141	Prerequisite: CCAD-8138 or prior AutoCAD experience This 16-hour course will be delivered live, in an online virtual classroom. The course is designed for individuals with prior AutoCAD experience and not the beginner. Projects will teach real-world, step-by-step use of advanced commands, including external reference (Xref) files, advanced tools for blocks, customizing the interface, collaboration, and management tools. An introduction to advanced 3D modeling tools and 3D rendering will also be included. Download free software. Upon completion, learners will earn 1.6 CEUs.	8:00 AM	4:30 PM	Remote	
12/10/20	12/11/20	Th-F	AutoCad-Advanced	CCAD 8141	Prerequisite: CCAD-8138 or prior AutoCAD experience This 16-hour course will be delivered live, in an online virtual classroom. The course is designed for individuals with prior AutoCAD experience and not the beginner. Projects will teach real-world, step-by-step use of advanced commands, including external reference (Xref) files, advanced tools for blocks, customizing the interface, collaboration, and management tools. An introduction to advanced 3D modeling tools and 3D rendering will also be included. Download free software. Upon completion, learners will earn 1.6 CEUs.	8:00 AM	4:30 PM	Remote	

10/5/20	10/7/20	M-W	AutoCad-Basic		<p>Prerequisite: None</p> <p>This 24-hour course will be delivered live, in an online virtual classroom. The course is designed for the beginner and will also include some intermediate tools. Projects will teach real-world, step-by-step use of primary drawing and editing commands and the development of architectural and mechanical drawings, working with a library of common drawings to increase productivity and the maintenance of CAD drawing files. The learner will apply 2D drafting practices including the development of projections, text, dimensioning, scale factors, blocks, and printing. An introduction to 3D modeling and reference files will also be included. In addition to class assignments, the learner will have access to bonus video practice tools that will reinforce and strengthen skills. Download free software. Upon completion learners will earn 2.4 CEUs.</p>	8:00 AM	4:30 PM	Remote	
10/19/20	10/21/20	M-W	AutoCad-Basic	CCAD 8138	<p>Prerequisite: None</p> <p>This 24-hour course will be delivered live, in an online virtual classroom. The course is designed for the beginner and will also include some intermediate tools. Projects will teach real-world, step-by-step use of primary drawing and editing commands and the development of architectural and mechanical drawings, working with a library of common drawings to increase productivity and the maintenance of CAD drawing files. The learner will apply 2D drafting practices including the development of projections, text, dimensioning, scale factors, blocks, and printing. An introduction to 3D modeling and reference files will also be included. In addition to class assignments, the learner will have access to bonus video practice tools that will reinforce and strengthen skills. Download free software. Upon completion learners will earn 2.4 CEUs.</p>	8:30 AM	4:30 PM	Remote	

10/26/20	10/28/20	M-W	AutoCad-Basic	CCAD 8138	<p>Prerequisite: None</p> <p>This 24-hour course will be delivered live, in an online virtual classroom. The course is designed for the beginner and will also include some intermediate tools. Projects will teach real-world, step-by-step use of primary drawing and editing commands and the development of architectural and mechanical drawings, working with a library of common drawings to increase productivity and the maintenance of CAD drawing files. The learner will apply 2D drafting practices including the development of projections, text, dimensioning, scale factors, blocks, and printing. An introduction to 3D modeling and reference files will also be included. In addition to class assignments, the learner will have access to bonus video practice tools that will reinforce and strengthen skills. Download free software. Upon completion learners will earn 2.4 CEUs.</p>	8:00 AM	4:30 PM	Remote	
11/16/20	11/18/20	M-W	AutoCad-Basic	CCAD 8138	<p>Prerequisite: None</p> <p>This 24-hour course will be delivered live, in an online virtual classroom. The course is designed for the beginner and will also include some intermediate tools. Projects will teach real-world, step-by-step use of primary drawing and editing commands and the development of architectural and mechanical drawings, working with a library of common drawings to increase productivity and the maintenance of CAD drawing files. The learner will apply 2D drafting practices including the development of projections, text, dimensioning, scale factors, blocks, and printing. An introduction to 3D modeling and reference files will also be included. In addition to class assignments, the learner will have access to bonus video practice tools that will reinforce and strengthen skills. Download free software. Upon completion learners will earn 2.4 CEUs.</p>	8:00 AM	4:30 PM	Remote	136

12/7/20	12/9/20	M-W	AutoCad-Basic	CCAD 8138	<p>Prerequisite: None</p> <p>This 24-hour course will be delivered live, in an online virtual classroom. The course is designed for the beginner and will also include some intermediate tools. Projects will teach real-world, step-by-step use of primary drawing and editing commands and the development of architectural and mechanical drawings, working with a library of common drawings to increase productivity and the maintenance of CAD drawing files. The learner will apply 2D drafting practices including the development of projections, text, dimensioning, scale factors, blocks, and printing. An introduction to 3D modeling and reference files will also be included. In addition to class assignments, the learner will have access to bonus video practice tools that will reinforce and strengthen skills. Download free software. Upon completion learners will earn 2.4 CEUs.</p>	8:00 AM	4:30 PM	Remote	
10/19/20	10/23/20	M-F	Basic PLC	CMNF 8247	<p>Prerequisite: CELC 8013/Electrical Fundamentals and CELC 8012/Motor Controls & Drives</p> <p>This 40-hour course is designed to provide skills in programmable logic controllers (PLC) fundamentals. The course provides a general understanding of PLC hardware, applications, and logic. Course topics include PLC hardware, navigation of PLC controller software, use of simple logic instructions, and basic troubleshooting.</p>	8:00 AM	5:00 PM	MTCB	137
11/16/20	11/20/20	M-F	Basic PLC	CMNF 8247	<p>Prerequisite: CELC 8013/Electrical Fundamentals and CELC 8012/Motor Controls & Drives</p> <p>This 40-hour course is designed to provide skills in programmable logic controllers (PLC) fundamentals. The course provides a general understanding of PLC hardware, applications, and logic. Course topics include PLC hardware, navigation of PLC controller software, use of simple logic instructions, and basic troubleshooting.</p>	8:00 AM	5:00 PM	MTCB	137

12/7/20	12/18/20	M-F	Basic PLC	CMNF 8247	Prerequisite: CELC 8013/Electrical Fundamentals and CELC 8012/Motor Controls & Drives This 40-hour course is designed to provide skills in programmable logic controllers (PLC) fundamentals. The course provides a general understanding of PLC hardware, applications, and logic. Course topics include PLC hardware, navigation of PLC controller software, use of simple logic instructions, and basic trouble-shooting.	5:00 PM	9:00 PM	Remote	137
10/5/20	10/9/20	M-F	Blueprint Reading, GDT and Metrology	CBPR 8013	Prerequisite: None. This 40-hour course is designed to provide the skills required for blueprint reading, geometric dimensioning and tolerance, and metrology. The course provides an understanding of blueprints, geometric dimensioning controls used on mechanical engineering drawings, and precision measurement tools.	8:00 AM	5:00 PM	MTCB	138
10/19/20	10/23/20	M-F	Blueprint Reading, GDT and Metrology	CBPR 8013	Prerequisite: None. This 40-hour course is designed to provide the skills required for blueprint reading, geometric dimensioning and tolerance, and metrology. The course provides an understanding of blueprints, geometric dimensioning controls used on mechanical engineering drawings, and precision measurement tools.	8:00 AM	5:00 PM	MTCB	125
11/2/20	11/6/20	M-F	Blueprint Reading, GDT and Metrology	CBPR 8013	Prerequisite: None. This 40-hour course is designed to provide the skills required for blueprint reading, geometric dimensioning and tolerance, and metrology. The course provides an understanding of blueprints, geometric dimensioning controls used on mechanical engineering drawings, and precision measurement tools.	8:00 AM	5:00 PM	South S	140
11/16/20	11/20/20	M-F	Blueprint Reading, GDT and Metrology	CBPR 8013	Prerequisite: None. This 40-hour course is designed to provide the skills required for blueprint reading, geometric dimensioning and tolerance, and metrology. The course provides an understanding of blueprints, geometric dimensioning controls used on mechanical engineering drawings, and precision measurement tools.	8:00 AM	5:00 PM	South S	140

11/30/20	12/11/20	M-F	Blueprint Reading, GDT and Metrology	CBPR 8013	Prerequisite: None. This 40-hour course is designed to provide the skills required for blueprint reading, geometric dimensioning and tolerance, and metrology. The course provides an understanding of blueprints, geometric dimensioning controls used on mechanical engineering drawings, and precision measurement tools.	5:00 PM	9:00 PM	MTCB	125
10/26/20	10/30/20	M-F	Electrical Fundamentals	CELC 8013	Prerequisite: None This 40-hour training course covers the basics of AC (Alternating Current) and DC (Direct Current) theory and fundamentals. The student will first gain an understanding of the concepts of electrical schematics, components, voltage, current and resistance. These fundamentals will then be applied through Ohm's Law to basic circuit design and analysis. Power, magnetism and DC generation will also be introduced to complete the theories of DC applications.	8:00 AM	5:00 PM	MTCB	125
11/30/20	12/4/20	M-F	Electrical Fundamentals	CELC 8013	Prerequisite: None This 40-hour training course covers the basics of AC (Alternating Current) and DC (Direct Current) theory and fundamentals. The student will first gain an understanding of the concepts of electrical schematics, components, voltage, current and resistance. These fundamentals will then be applied through Ohm's Law to basic circuit design and analysis. Power, magnetism and DC generation will also be introduced to complete the theories of DC applications.	8:00 AM	5:00 PM	MTCB	125
10/5/20	10/9/20	M-F	Electrical Fundamentals	CELC 8013	Prerequisite: None This 40-hour training course covers the basics of AC (Alternating Current) and DC (Direct Current) theory and fundamentals. The student will first gain an understanding of the concepts of electrical schematics, components, voltage, current and resistance. These fundamentals will then be applied through Ohm's Law to basic circuit design and analysis. Power, magnetism and DC generation will also be introduced to complete the theories of DC applications.	8:00 AM	5:00 PM	MTCB	125

10/8/20	10/9/20	TH-F	Failure Mode and Effects Analysis (FEMA) Workshop	CQLY 8029	Prerequisite: None This 8-hour course focuses on how FMEAs should be used during product and process development to identify function, potential failure of that function, effect of that failure, current controls to prevent failure, and prioritization of recommended actions. Participants should be product and process designers and engineers and others who will support the process, such as quality and management personnel.	8:00 AM	5:00 PM	MTCB	136
10/26/20	10/27/20	M-T	Failure Mode and Effects Analysis (FEMA) Workshop	CQLY 8029	Prerequisite: None This 8-hour course focuses on how FMEAs should be used during product and process development to identify function, potential failure of that function, effect of that failure, current controls to prevent failure, and prioritization of recommended actions. Participants should be product and process designers and engineers and others who will support the process, such as quality and management personnel.	8:00 AM	5:00 PM	MTCB	136
11/12/20	11/13/20	TH-F	Failure Mode and Effects Analysis (FEMA) Workshop	CQLY 8029	Prerequisite: None This 8-hour course focuses on how FMEAs should be used during product and process development to identify function, potential failure of that function, effect of that failure, current controls to prevent failure, and prioritization of recommended actions. Participants should be product and process designers and engineers and others who will support the process, such as quality and management personnel.	8:00 AM	5:00 PM	MTCB	136
11/16/20	11/19/20	M-Th	Failure Mode and Effects Analysis (FEMA) Workshop	CQLY 8029	Prerequisite: None This 8-hour course focuses on how FMEAs should be used during product and process development to identify function, potential failure of that function, effect of that failure, current controls to prevent failure, and prioritization of recommended actions. Participants should be product and process designers and engineers and others who will support the process, such as quality and management personnel.	5:00 PM	9:00 PM	MTCB	136

12/3/20	12/4/20	TH-F	Failure Mode and Effects Analysis (FEMA) Workshop	CQLY 8029	Prerequisite: None This 8-hour course focuses on how FMEAs should be used during product and process development to identify function, potential failure of that function, effect of that failure, current controls to prevent failure, and prioritization of recommended actions. Participants should be product and process designers and engineers and others who will support the process, such as quality and management personnel.	8:00 AM	5:00 PM	Remote	Remote
10/5/20	10/9/20	M-F	FANUC Robotics Operations	CMNF 8241	Prerequisite: None This 40-hour course is designed to provide the basic skills needed to operate and program FANUC robots. Course topics include robotic safety, controls, operations, and handling tool programming.	8:00 AM	5:00 PM	MTCB	124
11/9/20	11/13/20	M-F	FANUC Robotics Operations	CMNF 8241	Prerequisite: None This 40-hour course is designed to provide the basic skills needed to operate and program FANUC robots. Course topics include robotic safety, controls, operations, and handling tool programming.	8:00 AM	5:00 PM	MTCB	124
12/7/20	12/18/20	M-F	FANUC Robotics Operations	CMNF 8241	Prerequisite: None This 40-hour course is designed to provide the basic skills needed to operate and program FANUC robots. Course topics include robotic safety, controls, operations, and handling tool programming.	5:00 PM	9:00 PM	MTCB	123
10/26/20	10/30/20	M-F	Fluid Power Fundamentals	CMNF 8269	Prerequisite: None This 40-hour course is designed to provide the basic skills in fluid power. This course provides an understanding of fluid power symbols, basic components of fluid power systems, including basic laws and formulas for fluid power calculations. Course topics include pumps, control valves, actuators, and maintenance procedures of fluid power systems.	8:00 AM	5:00 PM	MTCB	124
11/16/20	11/20/20	M-F	Fluid Power Fundamentals	CMNF 8269	Prerequisite: None This 40-hour course is designed to provide the basic skills in fluid power. This course provides an understanding of fluid power symbols, basic components of fluid power systems, including basic laws and formulas for fluid power calculations. Course topics include pumps, control valves, actuators, and maintenance procedures of fluid power systems.	8:00 AM	5:00 PM	MTCB	123

11/23/20	11/25/20	M-W	Fusion 360	CCAD 8137	Prerequisite: None This 24-hour course will be delivered live, in an online virtual classroom. The course is designed for the beginner and will also include some intermediate tools. Projects will teach the fusion of CAD/CAM/CAE tools delivered in a cloud-based platform for product development. The learner will combine industrial and mechanical design, simulation, collaboration, and machining in a single CAD package from the design to manufacturing process. Download free software. Upon completion learners will earn 2.4 CEUs.	8:00 AM	4:30 PM	Remote	
12/14/20	12/16/20	M-W	Fusion 360	CCAD 8137	Prerequisite: None This 24-hour course will be delivered live, in an online virtual classroom. The course is designed for the beginner and will also include some intermediate tools. Projects will teach the fusion of CAD/CAM/CAE tools delivered in a cloud-based platform for product development. The learner will combine industrial and mechanical design, simulation, collaboration, and machining in a single CAD package from the design to manufacturing process. Download free software. Upon completion learners will earn 2.4 CEUs.	8:00 AM	4:30 PM	Remote	
10/19/20	10/20/20	M-T	HandlingPRO (ROBOGUIDE) Workcell Simulation	CMNF 8283	Prerequisite: CMNF 8241/FANUC Robotics Operations This 16-hour course is designed to provide the skills needed for creating a computer 3D simulated robotic workcell using FANUC ROBOGUIDE. Course topics include: Creating a Workcell; Add Parts to the Workcell; Edit Robot Properties; Add End-of-Arm Tooling to the Robot; Add a Pick and Place Fixture to the Workcell; Create/Run a Robot Program; Create an AVI of the Workcell.	8:00 AM	5:00 PM	MTCB	124
12/1/20	12/2/20	T-W	HandlingPRO (ROBOGUIDE) Workcell Simulation	CMNF 8283	Prerequisite: CMNF 8241/FANUC Robotics Operations This 16-hour course is designed to provide the skills needed for creating a computer 3D simulated robotic workcell using FANUC ROBOGUIDE. Course topics include: Creating a Workcell; Add Parts to the Workcell; Edit Robot Properties; Add End-of-Arm Tooling to the Robot; Add a Pick and Place Fixture to the Workcell; Create/Run a Robot Program; Create an AVI of the Workcell.	8:00 AM	5:00 PM	MTCB	124

10/26/20	10/30/20	M-F	Intermediate PLC- 1	CMNF 8285	Prerequisite: CMNF8247/Basic PLC 1 PLC Intermediate 1: This course builds on the foundations of the PLC Basics course to include importing and exporting files, introduction to Ethernet and DeviceNet communication protocols. Students will also configure RSLinx serial drivers and work with the BootP server. Ladder logic components and tag assignment programming elements are also introduced along with online editing capabilities.	8:00 AM	5:00 PM	MTCB	137
11/30/20	12/4/20	M-F	Intermediate PLC- 1	CMNF 8285	Prerequisite: CMNF8247/Basic PLC 1 PLC Intermediate 1: This course builds on the foundations of the PLC Basics course to include importing and exporting files, introduction to Ethernet and DeviceNet communication protocols. Students will also configure RSLinx serial drivers and work with the BootP server. Ladder logic components and tag assignment programming elements are also introduced along with online editing capabilities.	8:00 AM	5:00 PM	MTCB	137
11/2/20	11/6/20	M-F	Intermediate PLC- 2	CMNF 8279	Prerequisite: CMNF 8285/Intermediate PLC-1 PLC Intermediate 2: This is the third course in the PLC progression of courses with an emphasis how machines communicate with each other. Topics comprise toggling bits, trending and forcing programming elements. The configurations of I/O and communication modules plus rack arrangements and properties are also covered. File management and RSNetworkx. DNT configuration file creation is included in this course.	8:00 AM	5:00 PM	MTCB	137
12/7/20	12/11/20	M-F	Intermediate PLC- 2	CMNF 8279	Prerequisite: CMNF 8285/Intermediate PLC-1 PLC Intermediate 2: This is the third course in the PLC progression of courses with an emphasis how machines communicate with each other. Topics comprise toggling bits, trending and forcing programming elements. The configurations of I/O and communication modules plus rack arrangements and properties are also covered. File management and RSNetworkx. DNT configuration file creation is included in this course.	8:00 AM	5:00 PM	MTCB	137

10/26/20	10/30/20	M-F	Lean Six Sigma Green Belt	CQLY 8019	Prerequisite: None This 40-hour course is based on the American Society for Quality's (ASQ) CSSGB Body of Knowledge. Participants can expect to be fully engaged throughout this activity-based workshop, while learning and applying the various tools and techniques used throughout the DMAIC approach to Six Sigma. Participants should expect to be continually challenged to explain and demonstrate how they will utilize the power and utility of Six Sigma to improve customer satisfaction and organizational performance. * This is NOT a certification class.	8:00 AM	5:00 PM	Remote	
10/12/20	10/13/20	M-T	Measurement System Analysis (MSA) & Workshop	CQLY 8008	Prerequisite: None This 8-hour course focuses on the fundamentals of MSA/GRR in both average (short) and average range (long) methods. Other analytical methods for attribute gauges and ANOVA will be discussed. Participants should be quality personnel or others responsible for implementation and proper conduct of MSA/GRR.	8:00 AM	5:00 PM	MTCB	136
10/28/20	10/29/20	W-Th	Measurement System Analysis (MSA) & Workshop	CQLY 8008	Prerequisite: None This 8-hour course focuses on the fundamentals of MSA/GRR in both average (short) and average range (long) methods. Other analytical methods for attribute gauges and ANOVA will be discussed. Participants should be quality personnel or others responsible for implementation and proper conduct of MSA/GRR.	8:00 AM	5:00 PM	MTCB	136
11/9/20	11/13/20	M-Th	Measurement System Analysis (MSA) & Workshop	CQLY 8008	Prerequisite: None This 8-hour course focuses on the fundamentals of MSA/GRR in both average (short) and average range (long) methods. Other analytical methods for attribute gauges and ANOVA will be discussed. Participants should be quality personnel or others responsible for implementation and proper conduct of MSA/GRR.	5:00 PM	9:00 PM	MTCB	136
11/16/20	11/17/20	M-T	Measurement System Analysis (MSA) & Workshop	CQLY 8008	Prerequisite: None This 8-hour course focuses on the fundamentals of MSA/GRR in both average (short) and average range (long) methods. Other analytical methods for attribute gauges and ANOVA will be discussed. Participants should be quality personnel or others responsible for implementation and proper conduct of MSA/GRR.	8:00 AM	5:00 PM	MTCB	136

12/7/20	12/8/20	M-T	Measurement System Analysis (MSA) & Workshop	CQLY 8008	Prerequisite: None This 8-hour course focuses on the fundamentals of MSA/GRR in both average (short) and average range (long) methods. Other analytical methods for attribute gauges and ANOVA will be discussed. Participants should be quality personnel or others responsible for implementation and proper conduct of MSA/GRR.	8:00 AM	5:00 PM	Remote	Remote
10/12/20	10/16/20	M-F	Motor Controls & Drives	CELC 8012	Prerequisite: CELC 8013/Electrical Fundamentals This 40-hour course is designed to provide the basic skills in AC / DC motors and motor controls. The course provides an understanding of the operation of AC and DC motors and motor control circuits. Course topics include AC / DC motor operations, control circuit components, motor control wiring, connections, ladder diagrams, and interpretation of electronic motor control schematics.	8:00 AM	5:00 PM	MTCB	125
11/2/20	11/6/20	M-F	Motor Controls & Drives	CELC 8012	Prerequisite: CELC 8013/Electrical Fundamentals This 40-hour course is designed to provide the basic skills in AC / DC motors and motor controls. The course provides an understanding of the operation of AC and DC motors and motor control circuits. Course topics include AC / DC motor operations, control circuit components, motor control wiring, connections, ladder diagrams, and interpretation of electronic motor control schematics.	8:00 AM	5:00 PM	MTCB	124
12/7/20	12/11/20	M-F	Motor Controls & Drives	CELC 8012	Prerequisite: CELC 8013/Electrical Fundamentals This 40-hour course is designed to provide the basic skills in AC / DC motors and motor controls. The course provides an understanding of the operation of AC and DC motors and motor control circuits. Course topics include AC / DC motor operations, control circuit components, motor control wiring, connections, ladder diagrams, and interpretation of electronic motor control schematics.	8:00 AM	5:00 PM	MTCB	125

11/4/20	11/5/20	W-Th	Problem-Solving and Root-Cause-Analysis (RCA) - Workshop	CMGT 8187	Prerequisite: CMGT 8021A This workshop takes the concept of problem-solving up a few notches, by not only providing fresh perspectives to some of the most common and popular approaches (i.e. Five Whys, Fishbone Diagram, Force Field Analysis), but it also teaches the theory and, of course, the application of so many newer, less common (but very effective) techniques for analyzing and solving problems. Some of these are: Dunker Diagrams, Pareto Analysis, the Morphological Matrix, Six Thinking Hats, Blink Method and many more. Finally, we weave in the link between effective problem-solving and other complimentary methods such as PDCA, DMAIC, Prioritizing and data mining and analytics.	8:00 AM	5:00 PM	MTCB	136
10/19/20	10/20/20	M-T	Problem-Solving and Root-Cause-Analysis (RCA) - Workshop	CMGT 8187	Prerequisite: CMGT 8021A This workshop takes the concept of problem-solving up a few notches, by not only providing fresh perspectives to some of the most common and popular approaches (i.e. Five Whys, Fishbone Diagram, Force Field Analysis), but it also teaches the theory and of course, the application of so many newer, less common (but very effective) techniques for analyzing and solving problems. Some of these are: Dunker Diagrams, Pareto Analysis, the Morphological Matrix, Six Thinking Hats, and Blink Method and many more. Finally, we weave in the link between effective problem-solving and other complementary methods such as PDCA, DMAIC, Prioritizing and data mining and analytics.	8:00 AM	5:00 PM	MTCB	136

11/23/20	11/24/20	M-T	Problem-Solving and Root-Cause-Analysis (RCA) - Workshop	CMGT 8187	Prerequisite: CMGT 8021A This workshop takes the concept of problem-solving up a few notches, by not only providing fresh perspectives to some of the most common and popular approaches (i.e. Five Whys, Fishbone Diagram, Force Field Analysis), but it also teaches the theory and of course, the application of so many newer, less common (but very effective) techniques for analyzing and solving problems. Some of these are: Dunker Diagrams, Pareto Analysis, the Morphological Matrix, Six Thinking Hats, Blink Method and many more. Finally, we weave in the link between effective problem-solving and other complementary methods such as PDCA, DMAIC, Prioritizing and data mining and analytics.	8:00 AM	5:00 PM	MTCB	136
12/7/20	12/10/20	M-Th	Problem-Solving and Root-Cause-Analysis (RCA) - Workshop	CMGT 8187	Prerequisite: CMGT 8021A This workshop takes the concept of problem-solving up a few notches, by not only providing fresh perspectives to some of the most common and popular approaches (i.e. Five Whys, Fishbone Diagram, Force Field Analysis), but it also teaches the theory and of course, the application of so many newer, less common (but very effective) techniques for analyzing and solving problems. Some of these are: Dunker Diagrams, Pareto Analysis, the Morphological Matrix, Six Thinking Hats, Blink Method and many more. Finally, we weave in the link between effective problem-solving and other complementary methods such as PDCA, DMAIC, Prioritizing and data mining and analytics.	5:00 PM	9:00 PM	MTCB	136

12/14/20	12/15/20	M-T	Problem-Solving and Root-Cause-Analysis (RCA) - Workshop	CMGT 8187	Prerequisite: CMGT 8021A This workshop takes the concept of problem-solving up a few notches, by not only providing fresh perspectives to some of the most common and popular approaches (i.e. Five Whys, Fishbone Diagram, Force Field Analysis), but it also teaches the theory and of course, the application of so many newer, less common (but very effective) techniques for analyzing and solving problems. Some of these are: Dunker Diagrams, Pareto Analysis, the Morphological Matrix, Six Thinking Hats, Blink Method and many more. Finally, we weave in the link between effective problem-solving and other complementary methods such as PDCA, DMAIC, Prioritizing and data mining and analytics.	8:00 AM	5:00 PM	Remote	Remote
10/5/20	10/8/20	M-TH	Remote Laser Welding Introduction	CWET 8061	Prerequisites: Basic Robot Programming The Remote Laser Welding class is designed to introduce the student to the Remote Laser Welding process. This training class consists of lecture time with a strong emphasis on hands-on exercises. It is highly recommended this introduction to laser welding processes be followed by Remote Laser Welding: Theory & Operations and Remote Laser Welding: Weld Quality & Adjustments. Pre- and Post-testing shall be utilized for this class. All class materials are included.	8:00 AM	5:00 PM	Offsite	Offsite
10/19/20	10/22/20	M-TH	Remote Laser Welding Theory and Operations	CWET 8063	This Remote Laser Welding class is designed as a continuation of Remote Laser Welding: Introduction & Operations. This training class consists of lecture with a strong emphasis on hands-on exercises. Remote Laser Welding is a required prerequisite, and Remote Laser Welding: Weld Quality & Adjustments is highly recommended as a follow-up to Remote Laser Welding: Theory & Operations. Pre- and Post- testing shall be utilized. All class materials are included.	8:00 AM	5:00 PM	Offsite	Offsite

12/17/20	12/18/20	Th-F	Revit - Advanced	CCAD 8140	Prerequisite: CCAD-8136 or prior Revit Architecture experience This 16-hour course will be delivered live, in an online virtual classroom. The course is designed for individuals with prior Revit Architecture experience and not the beginner. Projects will teach real world, step-by-step use of advanced tools including customizing families, advanced coordination and presentation tools, construction modeling, and analysis tools. Download free software. Upon completion, learners will earn 1.6 CEUs.	8:00 AM	4:30 PM	Remote	
10/12/20	10/14/20	M-W	Revit - Basic	CCAD 8136	This 24-hour course will be delivered live, in an online virtual classroom. The course is designed for the beginner and will also include some intermediate tools. Projects will include residential and commercial applications from conceptual mass modeling to construction documents. The learner will apply a wide range of tools to create, modify, and manage a central 3D model used to create printable 2D and 3D views. In addition to class assignments, the learner will have access to bonus video practice tools that will reinforce and strengthen skills. The Revit software is a powerful Building Information Modeling (BIM) program with a central 3D Model that represents the entire building. Download free software. Upon completion learners will earn 2.4 CEUs.	8:00 AM	4:30 PM	Remote	
11/9/20	11/11/20	M-W	Revit - Basic	CCAD 8136	This 24-hour course will be delivered live, in an online virtual	8:00 AM	4:30 PM	Remote	
11/30/20	12/2/20	M-W	Revit - Basic	CCAD 8136	This 24-hour course will be delivered live, in an online virtual classroom. The course is designed for the beginner and will also include some intermediate tools. Projects will include residential and commercial applications from conceptual mass modeling to construction documents. The learner will apply a wide range of tools to create, modify, and manage a central 3D model used to create printable 2D and 3D views. In addition to class assignments, the learner will have access to bonus video practice tools that will reinforce and strengthen skills. The Revit software is a powerful Building Information Modeling (BIM) program with a central 3D Model that represents the entire building. Download free software. Upon completion learners will earn 2.4 CEUs.	8:00 AM	4:30 PM	Remote	

10/21/20	10/23/20	W-F	Shop Math	CMTH 8008	Prerequisite: None This 24-hour course teaches students the fundamental math functions used in machining. The course will cover basic fractions and decimals as well as basic triangle and circle geometry relevant to the shop.	8:00 AM	5:00 PM	MTCB	124
10/14/20	10/15/20	W-Th	Statistical Process Control (SPC) & Workshop	CSPC 8005	Prerequisite: None This 8-hour course teaches the fundamentals of the planning, collection, and analysis of product and process data using variable control charts (Xbar & R) and process capability (Cpk. Ppk) calculations. Participants should be quality personnel or others responsible for the identification and implementation of product and process control.	8:00 AM	5:00 PM	MTCB	136
11/2/20	11/3/20	M-T	Statistical Process Control (SPC) & Workshop	CSPC 8005	Prerequisite: None This 8-hour course teaches the fundamentals of the planning, collection, and analysis of product and process data using variable control charts (Xbar & R) and process capability (Cpk. Ppk) calculations. Participants should be quality personnel or others responsible for the identification and implementation of product and process control.	8:00 AM	5:00 PM	MTCB	136
11/18/20	11/19/20	W-Th	Statistical Process	CSPC 8005	Prerequisite: None	8:00 AM	5:00 PM	MTCB	136
11/30/20	12/3/20	M-Th	Statistical Process Control (SPC) & Workshop	CSPC 8005	Prerequisite: None This 8-hour course teaches the fundamentals of the planning, collection, and analysis of product and process data using variable control charts (Xbar & R) and process capability (Cpk. Ppk) calculations. Participants should be quality personnel or others responsible for the identification and implementation of product and process control.	5:00 PM	9:00 PM	MTCB	136
12/9/20	12/10/20	W-Th	Statistical Process Control (SPC) & Workshop	CSPC 8005	Prerequisite: None This 8-hour course teaches the fundamentals of the planning, collection, and analysis of product and process data using variable control charts (Xbar & R) and process capability (Cpk. Ppk) calculations. Participants should be quality personnel or others responsible for the identification and implementation of product and process control.	8:00 AM	5:00 PM	Remote	Remote

11/2/20	11/5/20	M-TH	Weld Quality and Adjustment	CWET 8062	This Remote Laser Welding class is designed to complete the Remote Laser Welding series. This training class consists of lecture with a strong emphasis on hands-on exercises. Pre- and Post-testing shall be utilized throughout this class. All class materials are include	8:00 AM	5:00 PM	Offsite	Offsite
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