ENGINEERING

ENGINEERING FUNDAMENTALS



	Units of Measurement	Geometry: Circles and Polygons	Introduction to Metals	Introduction to Circuits	Additive Manufacturing Methods and
	Basics of Tolerance	Trigonometry: The Pythagorean Theorem	Essentials of Heat Treatment of Steel	DC Circuit Components	Materials
	Blueprint Reading	Trigonometry: Sine, Cosine, Tangent	Lean Manufacturing Overview	AC Fundamentals	Intro to Assembly
	Algebra Fundamentals	Statistics	Cutting Processes	Introduction to Ceramics	Introduction to Composites
	Geometry: Lines and Angles	Introduction to Physical Properties	Introduction to CAD and CAM for Machining	Introduction to Additive Manufacturing	
	Geometry: Triangles	Introduction to Mechanical Properties	Electrical Units	Additive Manufacturing Safety	
	ENGINEERING TECHNICIAN				
	Supporting and Locating Principles	ISO 9001:2015 Review	Parallel Circuit Calculations	The Forces of Fluid Power	Process Design and Development
	Fixture Design Basics	Troubleshooting	Basics of Siemens PLCs	Introduction to Hydraulic Components	Production System Design and
	Introduction to GD&T	SPC Overview	Siemens PLC Communication	Introduction to Pneumatic Components	Development
	Hand and Power Tool Safety	Lathe Tool Geometry	Basic Ladder Diagram Programming for	Power Transmission Components	Equipment/Tool Design and Development
	Classification of Steel	Mill Tool Geometry	Siemens PLCs	Introduction to Welding Processes	Automated Systems and Control
	Hardness Testing	Drill Tool Geometry	Forces of Machines	Applied and Engineering Sciences	Quality and Customer Service
	Ferrous Metals	Basics of G Code Programming	Introduction to PLCs	Manufacturing Process Applications I	Manufacturing Management
	Nonferrous Metals	Punch and Die Operations	Basics of Ladder Logic	Manufacturing Process Applications II	Personal Effectiveness
_	Thermosets	Series Circuit Calculations	Networking for PLCs	Product Design and Development	