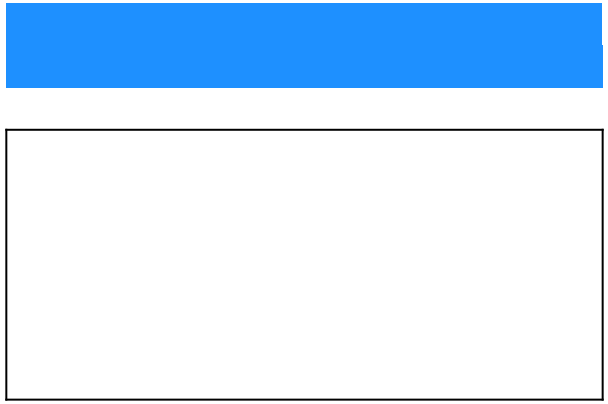
[Course Name]

Course title:	**Trade Math**
Course Description:	This course will discuss basic measuring including wiring lengths and room dimensions as well as calculating pipe configurations and electrical currents. In addition, measurement ratios, proportions, decimals, fractions, powers, roots, and basic algebraic formulas will be covered.
Is this course a new development or refresh?	new development
Is there anything you would like to share?	



Trade Title	competencies
Building Maintenance Mechanic	Fundamentals and Review of
Precision Optics Manufacturing Technician	Technical Mathematics
Drafter (Structural)	Math Fundamentals, Algebra,
Meat Cutter (3 yr)	Applications to the Trade
Tool and Die Maker	Fundamentals of Algebra,
Machine Repairer	Fundamental of Mathematics,
Metal Refinisher	Weights and Measures,
Plant Maintenance Mechanic - (3yr)	Fundamentals of Mathematics,
Model Maker	Fundamentals of Mathematics,
Plant Maintenance - Millwright	Fundamentals of Mathematics, Shop Math and Measurement, Estimating for Installation and Reconditioning
Welder (Industrial)	Fundamentals of Mathematics,
Plant Maintenance (Boilermaker)	Trade Math
Sheet Metal Worker	Trade Arithmetic, Trade, Algebra, Trade Geometry, Field Measuring, Estimating
Maintenance Mechanic (Automotive Repair)	Fundamentals of Mathematics,
Meat Cutter (2yr)	Fundamentals of Mathematics,
Tool Maker	Fundamentals of Algebra,
Electronics-Mechanic (CNC Systems Maintenance)	Algebra
Mold Maker	Fundamentals of Mathematics,
Precision TIG (GTAW) Welder	Trade Math, Precision
Quality Assurance Auditor	Trade Math, Geometry
Industrial Machinery Mechanic	Fundamentals of Mathematics,
Industrial Manufacturing Technician	Trade Math
Machinist (CNC)	Geometry
Plastics Process Technician	Basic Math Skills, Algebra
Electronic Lab Technician	Math Fundamentals, Electrical

Plant Maintenance - Mechanic (4 yr)	Fundamentals of Mathematics,
Electro-Mechanical Technician	Trade Math
Plant Maintenance - Electrician	Fundamentals of Mathematics,
Plant Maintenance - Welder	Fundamentals of Mathematics,
Welder (Maintenance)	Fundamentals of Mathematics,
Machine Builder	Metrics, Use of Calculator,
Machinist	Geometry
Plant Maintenance-Sheet Metal Worker	Geometry, Precision
Plastics Molder	Fundamentals of Mathematics,

Course Planning/Alig

requency)	Objectives	Assessment(s)
Very Important, Everyday	Solving simple algebraic equations (addition, subtraction, multiplication, division)	HW 1: Review of Whole Numbers; Post an explanation of real world application using concepts introduced in Module 1
Extremely Important, Everyday	Understanding whole numbers, fractions, decimals	HW 2: Factors, Prime Numbers, Introduction to Fractions; Post an explanation of real world application using concepts introduced in Module
Important, Once a Week	Calculating percents	HW 6: Solving Percent Problems, Application of percent to situations; Post an explanation of real world application using concepts
Important, Once a Week	Ratios and Proportions, Solving Equations	HW 5: Determine ratios, simply, solve for variables;Post an explanation of real world application using concepts introduced in Module 1 or correctly identify the error in a common error problem and provide explanation. HW 4: Solving equations using addition/subtraction/Multiplication/Division
Important, Oncea Week	Signed Numbers	HW 7: Signed numbers (intro, adding, subtracting, multiplying and dividing); Post an explanation of real world application using concepts introduced in Module 1 or correctly identify the error in a common error problem and provide explanation. Test 2: Units 4-7 HW 8: Combining Like Terms and Using the Distributive Property; Solving Equations, Using Formulas, Specific Variables
Very Important, Everyday	Unit measurement	HW 9: Reading Ruler Assignment, US Measurements, Metri/US Conversions; Post an explanation of real world application using concepts introduced in Module 9
Very Important, Once a Week	Unit conversions	
Very Important Once a Week	Basic geometry	HW 10: Perimeter and Circumference, Area, Pythagorean Theorum; Post an explanation of real world application using concepts introduced in Module 10 Test 3: Units 8-10
Important, Once a Week	Calculating electrical	HW 11: Averages, Tolerances,

	currents	Ohm's Law, Resistance
Important, Once a Week	Calculating three-dimensional shapes (length, area, volume)	HW 11: Pipe applications, Tolerances applications; Room dimensions project

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Activities	Resources (Content)	Completed
Video Lecture, Discussion post, worksheet	Video, Discussion Post, Notes Outlines	
Video Lecture, Discussion post, worksheet	Video, Discussion Post, Notes Outlines	
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Video Lecture, Discussion post, worksheet	Video, Discussion Post, Notes Outlines

Template [OSCQR 3.1]

			Sufficiently Present	Minor Revision	Moderate Revision	Major Revision	Not Applicable	Action Plan
		Estimated time needed for revision:		*1/2 hour or less*	*1/2-2 hours*	*2+ hours*		
RSI	1	from Instructor)						
RSI	2	assessments, predictable and easy to navigate/find.						
RSI	2.a	Course calendar is populated with due dates for assignments						
RSI	3	syllabus for learners in a clear and navigable way.						
	4	A printable syllabus is available to learners (PDF, HTML).						
	5	computer use, filing grievances, accommodating disabilities, etc.						
RSI	6	orientation, tutoring).						
	7	web-enhanced.						
	8	pop-ups, browser issue, microphone, webcam).						
RSI	9	to learning activities and assessments.						
RSI	10	program.						
	11	hardware) are clearly stated and supported with resources.						
	11.a	SUNY Learning Network						
	12	appropriate).						
	13	being utilized are removed from the course menu.						
	14	Course includes links to privacy policies for technology tools.						
	15	Any technology tools meet accessibility standards.						
	16	content organized together, self-evident titles).						
	16.a	links and does not include unused tools						
	17	ample white space around and between the blocks.						
	18	be easily viewed.						
RSI	19	Instructions are provided and well written.						
	20	Course is free of grammatical and spelling errors.						
	21	readability and improve the structure of the document.						
	22	Flashing and blinking text are avoided.						
	23	A sans-serif font with a standard size of at least 12 pt is used.						
	24	table.						
	25	Tables are accompanied by a title and summary description.						
	26	Table header rows and columns are assigned.						
	27	Slideshows use a predefined slide layout and include unique slide titles.						
	28	slides.						

RSI	29	substantive interaction with the instructor.						
RSI	30	and problem-solving skills, such as critical reflection and analysis.						
RSI	31	based activities.						
	32	materials are used.						
	33	clearly stating permission to share where applicable.						
	34	with Blackboard Ally)						
	35	captions, transcripts, etc.).						
	36	THAT ALL INFORMATION/MATERIALS MUST BE TEXT.)						
	36.a	Assignments align to the learning goals/objectives						
	37	using "click here").						

RSI	38	appropriate for the course length and structure, and are easy to find.						
RSI	39	course interaction/communication channels						
RSI	40	Learners have an opportunity to get to know the instructor.						
RSI	41	Bulletin Board, planned Office Hours, and dedicated discussion forums).						
	41.a	challenging for English as a Second Language learners.						
	42	collaboration, teamwork,)						
	42.a	connect to their life/program)						
RSI	43	information with guidance and/or standards from the instructor.						

RSI	44	clearly stated in the course information area or syllabus.						
RSI	45	the learners' mastery of content.						
RSI	46	(rubrics, exemplary work).						
RSI	47	reflective assignments, etc.).						
	48	accommodation.						
	49	columns are deleted instead of hidden. Hidden columns are purposeful)						
	50	technology.						

M-A	M-A	Hyperlinks are provided for embedded content.						
M-B	M-B	The course avoids the use of tables and multiple levels of indents.						
M-C	M-C	Text is not placed to the left or right of images.						
M-D	M-D	When specifying width, percentages are used instead of pixels.						
M-E	M-E	The course is tested on multiple mobile devices.						
M-F	M-F	and iOS mobile platforms.						
M-G	M-G	mobile devices (such as Flash and Java).						
M-H	M-H	When file attachments are necessary, PDF is used as much as possible.						
M-I	M-I	Content is divided into small, manageable chunks.						

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