Teacher Name : Joseph Chicalese **Subject :Precision Machine** **Start Date(s): 12/22-26** **Grade Level (s): 2**
Building:HACC

HAZLETON AREA SCHOOL DISTRICT

DISTRICT UNIT/LESSON PLAN

Teacher Name : Joseph Chicalese **Subject :Precision Machine** **Start Date(s): 12/22-26** **Grade Level (s): 2**
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Unit Title: an educational unit title summarizes content across several lessons that establishes and reinforces certain skills and essential knowledge for grade levels and content areas.

500 OPERATE DRILL PRESSES.

501 Demonstrate safety precautions when using the drill press.
502 Select and demonstrate proper use of drill work holding devices.
503 Calculate speeds and feeds.
504 Demonstrate the use of center drill.
505 Select correct drill sizes for various applications.
506 Pre-drill and ream various size holes.
507 Demonstrate counter boring, spot facing and countersinking.
508 Pre-drill and tap holes.
509 Grind and use flat bottom drill.

CAREER CLUSTER
Manufacturing Career Cluster
(Choose Standards)
1-2-3-4-5-6-7
CAREER PATHWAYS INCLUDE:
Maintenance, Installation and Repair Career Pathway
(Choose Standards)
1-2-3-4-5-6
NOTE:
Refer to the Common Career Technical Core Standards booklet if you

KEY IDEAS/DETAILS
GRADES 9-10-11-12
Standard CC.3.5.9-10. A
Standard CC.3.5.11-12 A
Cite specific textual evidence, etc.
Standard CC.3.5.9-10 B
Standard CC.3.5.11-12. B
Determine the central ideas or conclusions of a text; etc.
Standard CC.3.5.9-10.C
Standard CC.3.5.11-12.C
Follow precisely a complex multistep procedure, etc.
CRAFT & STRUCTURE
GRADES 9-10-11-12
Standard CC.3.5.9-10. D
Standard CC.3.5.11-12.D
Determine the meaning of

TEXT TYPES AND PURPOSE
GRADES 9-10-11-12
Standard CC.3.6.9-10.A
Standard CC.3.6.11-12.A
Write arguments focused on discipline specific content.
Standard CC.3.6.9-10.B
Standard CC.3.6.11-12.B
Write informative or explanatory texts, including the narration of technical processes, etc.
PRODUCTION & DISTRIBUTION OF WRITING
GRADES 9-10-11-12
Standard CC.3.6.9-10.C
Standard CC.3.6.11-12 C

NUMBERS AND OPERATIONS
Standard 2.1.HS.F.2
Apply properties of rational and irrational numbers to solve real world or mathematical problems.
Standard 2.1.HS.F.4
Use units as a way to understand problems and to guide the solution of multistep problems.
Standard 2.1.HS.F.5
Choose a level of accuracy appropriate to limitations on measurement when reporting quantities.
Standard 2.1.HS.F.6

Examples - *Building Complete Sentences*

Essential Questions: Essential questions are concept in the form of questions. Questions suggest inquiry. Essential questions are organizers and set the focus for the lesson or unit. Essential questions are initiators of creative and critical thinking. Essential questions are conceptual commitments focusing on key concepts implicit in the curriculum

Examples - What must a scientist do in order to research something?
What is the role of geometry in advertising, architecture, or fabric design?
Do stories need a beginning, middle, and end? Why?
How do people express themselves through art today?

Standards: **PA Core Standards, PA Academic Standards/Anchors (based on subject)**

Summative Unit Assessment :

Teacher Name : Joseph Chicalese **Subject :Precision Machine** **Start Date(s): 12/22-26** **Grade Level (s): 2**
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Unit Plan

Perform Bench work for NIMS certifications	__X__ Student Self-Assessment __X___Performance Assessment __X__ Other (explain) Each student must complete the NIMS Layout project as per print

DAILY PLAN

Day DT	Objective (s)	DOK Level	Activities / Teaching Strategies	Grouping	Materials / Resources	Assessment of Objective (s)
M 1	**Tasks: 501,502,503,504,506,507,508**		**NIMS Job Duty 2.8 Manual Operation, Drill press project. Perform speed and feed calculations for this project. Determine proper hole locations on the X and Y axis.**		**NIms Drill Press Print**	**Formative-** **Summative-** **Student Self – Assessment-**
T 2	**Tasks: 501,502,503,504,505,506,507,508**		**Students will use an edge finder for locating the holes for this project.** **Students will learn the proper procedures for center drilling and spot drilling.** **Students will calculate drill tip length by using the proper formula for a 118 degree drill bit.**		**NIMS Drill press Print** **Drill press identification** **Milling Machine identification** **Drill identification** **Tap types** **Files** **Layout dye** **Hand tools**	**Formative-** **Summative-** **Student Self - Assessment-**
W 3	**Winter Break**					**Formative-** **Summative-** **Student Self - Assessment-**
T H					**.**	**Formative-**

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4	**Winter Break**					**Summative-** **Student Self - Assessment-**
F **5**	**Winter Break**				**Nims drill press print** **Rpm formula** **Cutting speed formula** **Counter boring tools**	**Formative-** **Summative-** **Student Self - Assessment-**