

Pathway
to a
TECHNICAL
Future

Foundation of Knowledge

A platform upon which all future success is built

Core Content

- Standards
- Required Curriculum
- The 3 R's
- Text Books / Resource Materials
- Instructional Learning

Essential Skills

- Critical Thinking
- Team Players
- Basic Tech Skills
- Learning Skills
- Self-Motivation
- Minds on Task
- Soft Skills
- Competency
- Dependability

Physical/Analog Domain

Continuously variable physical quantity

Discovery Learning

- Field Trips
- Project Based
- Experiential Learning
- Explore Information & Concepts
- Learn by Doing

Human Performance

- Quality Control / Pride
- Ethics
- Fitness for Duty
- Trade Skills
- Questioning Attitude
- Affinity for Safety
- 2-Minute Drill

Digital World

Through a binary nature

Sharing Information

- Media Creation
- Digital Presentations
- Writing Papers
- Research Tools
- Social Learning

Communication

- Create Media
- Use Media (social, web, video)
- Research
- Document Creation / Manipulation
- Task Lifecycle
- Articulate Ideas (Design)
- Self Reliance with Tech

Logic Universe

The science of reasoning

Scientific Processes

- Controlled Variables
- Known Procedures vs. Known Outcomes
- Repeatable Process = Repeatable Results
- Minimize Human Performance Errors
- Questioning Attitude
- Lab Procedures

Standard Operating Procedures

- Increases Reliability
- Improves Efficiency
- Ensures Safety
- Demands Compliance
- Minimizes Human Performance Errors

Data Matrix

Something from which another originates

Evaluation

- Validation
- Process Feedback
- Verifying Hypothesis
- Measuring Knowledge
- Project Assessment

Informed Decisions

- Determines Essential Operations
- Allows Preventative Maintenance
- Provides Pro-Active Actions
- Facts not Feelings
- Sustainability Triple Bottom Line
- Public Service

Innovation

The IMPLEMENTATION of new IDEAS!

Applying Learned Knowledge

- Ah Ha
- Cross Curricular Integration
- Creative Task Success
- Social Innovation
- Real World Connections

Process Improvement

- New Gadgets & Tools
- Social Innovation
- Personal Contributions & Value
- Improved Bottom Line
- New Opportunities / Markets
- Improved Customer Service