The General Trade Knowledge examination is administered daily in Computer Based Testing (CBT) format. It will consist of 80 equally weighted questions.

You should be prepared to respond to examination questions on any of the content areas listed. Questions asked and content areas tested on previous examinations should not be assumed to be the only possible questions to be asked or content areas to be tested on this examination.

The percentage of questions shown for each content area may vary by as much as plus or minus three (3) percent. Please refer to the Candidate Information Booklet and the Reference List for additional information.

<table>
<thead>
<tr>
<th>Content Area A</th>
<th>7%</th>
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<tbody>
<tr>
<td><strong>Determining Existing Soil Conditions</strong></td>
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<tr>
<td>1. <strong>Review Soil Report</strong></td>
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<tr>
<td>knowledge of local geology</td>
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<tr>
<td>knowledge of soil type</td>
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<td>knowledge of testing terminology</td>
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<tr>
<td>2. <strong>Analyze Soil Conditions</strong></td>
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<tr>
<td>knowledge of soil profiling</td>
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<td>knowledge of groundwater conditions</td>
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<td>knowledge of local geology</td>
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<td>3. <strong>Design Foundation System</strong></td>
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<td>knowledge of material types</td>
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<td>knowledge of foundation systems</td>
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<td>knowledge of installation methods</td>
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<td>knowledge of soil bearing capacity</td>
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<thead>
<tr>
<th>Content Area B</th>
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<tr>
<td><strong>Determining Project Parameters</strong></td>
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<tr>
<td>1. <strong>Determine Area Jurisdiction</strong></td>
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<tr>
<td>knowledge of local, state, and federal personnel</td>
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<tr>
<td>knowledge of local, state, and federal regulations</td>
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<td>knowledge of property ownership</td>
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<td>knowledge of proprietary jurisdiction</td>
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<td>knowledge of environmental concerns</td>
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<td>knowledge of best management practices</td>
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<td>2. <strong>Prepare Construction Documents</strong></td>
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<td>knowledge of framing spans</td>
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<td>knowledge of dead and live loads</td>
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<td>knowledge of wind loads</td>
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<td>knowledge of site conditions</td>
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<td>knowledge of structural systems</td>
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<td>knowledge of local, state, and federal codes and</td>
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<td>regulations</td>
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<td>knowledge of foundation capacities</td>
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<td>knowledge of trade terminology</td>
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<td>knowledge of trade specialists</td>
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<td>knowledge of trade products</td>
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<td>3. <strong>Secure Project Permits</strong></td>
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<td>knowledge of local, state, and federal codes and</td>
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<td>regulations</td>
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<td>knowledge of permitting procedures</td>
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<td>knowledge of local committee meetings or hearings</td>
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<td>4. <strong>Determine Project Timeline</strong></td>
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<td>knowledge of scheduling types</td>
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<td>knowledge of local conditions</td>
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<td>knowledge of crew capabilities</td>
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<td>knowledge of equipment capabilities</td>
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<td>knowledge of trade products</td>
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<td>knowledge of local, state, and federal permitting</td>
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<td>response times</td>
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5. Implement Safety Program
Knowledge of job safety hazards
Knowledge of safety rules & regulations
knowledge of MSDS (material safety data sheet)

Content Area C  16%
Administering Project

1. Investigate Site Conditions
knowledge of sunshine one locates
knowledge of equipment dimensions
knowledge of soil conditions
knowledge of neighboring property issues
knowledge of local committees
knowledge of Home Owners Association regulations
knowledge of local security

2. Order Project Materials
knowledge of construction methods
knowledge of freight characteristics
knowledge of marine materials
knowledge of MSDS (material safety data sheet)
knowledge of site conditions and access

3. Order Project Equipment
knowledge of equipment capabilities and limitations
knowledge of site access
knowledge of equipment availability
knowledge of emergency response plan

4. Mobilize Equipment
knowledge of equipment capabilities and limitations
knowledge of project materials
knowledge of local conditions and access
knowledge of environmental conditions
knowledge of insurance requirements
knowledge of coast guard regulations

5. Assign Project Personnel
knowledge of personnel capabilities
knowledge of subcontractor timelines
knowledge of personnel responsibilities
knowledge of US Longshoreman & Harbor Workers (USL&H) Insurance
knowledge of Jones Act Insurance
knowledge of company policies
knowledge of Safety procedures

6. Conduct Pre-Construction Meeting
knowledge of site conditions
knowledge of project scope
knowledge of project scheduling

Content Area D  9%
Constructing Foundation Systems

1. Demolish Existing Structure
knowledge of heavy equipment
knowledge of disposal sites
knowledge of HazMat requirements
knowledge of soil conditions
knowledge of existing structure
knowledge of diving
knowledge of environmental regulations

2. Layout Structure Location
knowledge of property survey
knowledge of riparian law
knowledge of survey methods
knowledge of survey equipment
knowledge of project parameters
knowledge of environmental regulations
knowledge of local, state, and federal codes and regulations

3. Install Concrete Footers
knowledge of concrete mixtures
knowledge of reinforcement requirements
knowledge of concrete finishing
knowledge of concrete conveying systems
knowledge of volume estimations
knowledge of formwork carpentry

4. Install Structure Piling
knowledge of hammer capacities
knowledge of jet pumps
knowledge of soil conditions
knowledge of piling capacities
knowledge of rigging
knowledge of construction layout
knowledge of equipment operations
Content Area E 13%
Constructing Shoreline Stabilization

1. Install Soil Stabilization Systems
knowledge of survey and layout
knowledge of hydrology
knowledge of tidal conditions
knowledge of erosion control
knowledge of product installation

2. Install Cast-In-Place Concrete Wall
knowledge of concrete finishing
knowledge of concrete mixed design
knowledge of formwork carpentry
knowledge of reinforcement requirements
knowledge of concrete conveying systems
knowledge of volume estimations
knowledge of concrete placement

3. Install Pre-Cast Concrete Wall
knowledge of concrete finishing
knowledge of concrete mix
knowledge of formwork carpentry
knowledge of reinforcing requirements
knowledge of concrete conveying systems
knowledge of volume estimations
knowledge of concrete placement

4. Install Sheet Piling
knowledge of hydrostatic pressure
knowledge of concrete formwork
knowledge of concrete mixed design
knowledge of survey controls
knowledge of sheet piling
knowledge of vibratory hammers
knowledge of cranes
knowledge of impact hammers
knowledge of water pumps
knowledge of installation methods
knowledge of rigging
knowledge of soil conditions

5. Install Timber Bulkhead
knowledge of timber construction
knowledge of environmental regulations
knowledge of timber preservation treatment
knowledge of rough carpentry
knowledge of anchoring systems

Content Area F 10%
Constructing Anchoring Systems

1. Install Concrete Deadmen
knowledge of soil conditions
knowledge of concrete mix
knowledge of reinforcing bars
knowledge of tie-back system capabilities
knowledge of heavy equipment

2. Install Timber Pilings
knowledge of soil conditions
knowledge of pile drivers
knowledge of pile capabilities
knowledge of tie-back system capabilities
knowledge of heavy equipment

3. Install Helical Anchors
knowledge of soil conditions
knowledge of product applications
knowledge of equipment operations

4. Install Wedge Anchors
knowledge of soil conditions
knowledge of anchor operations
knowledge of equipment operations

Content Area G 6%
Performing Dredge and Fill Operations

1. Obtain Dredge and Fill Permit
knowledge of volumetric calculations
knowledge of surveying
knowledge of local, state, and federal codes and regulations
knowledge of environmental concerns

2. Excavate Spoil
knowledge of types of dredging
knowledge of dewatering procedures
knowledge of equipment operations
knowledge of turbidity testing
knowledge of environmental regulations
knowledge of surveying
knowledge of equipment maintenance

knowledge of backfill material and methods
3. Relocate Spoil
knowledge of types of dredging
knowledge of transportation equipment
knowledge of heavy equipment
knowledge of Florida Department of Transportation regulations
knowledge of environmental regulations
knowledge of equipment maintenance

Content Area H
Building Floating Marine Structures

9%

1. Installation of Flotation Systems
knowledge of flotation products and systems
knowledge of wave attenuators

2. Construct Frame Structure
knowledge of marine accessory types
knowledge of fire suppression systems
knowledge of marine utilities
knowledge of mooring systems
knowledge of metallurgical reactions

3. Install Anchoring Systems
knowledge of concrete piles
knowledge of wood piles
knowledge of helical anchors
knowledge of counter-weight anchors
knowledge of cable systems
knowledge of wedge anchors
knowledge of pile guides
knowledge of soil conditions
knowledge of rigging
knowledge of pile driving
knowledge of heavy equipment
knowledge of water elevations

4. Install Access Gangway
knowledge of aluminum gangways
knowledge of ADA requirements
knowledge of fastening systems
knowledge of water elevation fluctuations
knowledge of geometry

5. Install Specialty Equipment
knowledge of mooring of vessels
knowledge of local, state, and federal codes and regulations
knowledge of vessels
knowledge of mooring products and installation
knowledge of recreational accessory products installation

Content Area I
Building Fixed Marine Structures

14%

1. Install Framing Structure
knowledge of carpentry
knowledge of surveying
knowledge of fastening hardware
knowledge of wood properties
knowledge of metallurgical properties
knowledge of welding
knowledge of aluminum frame structures
knowledge of wood frame structures
knowledge of steel frame structures
knowledge of plastic frame structures
knowledge of concrete frame structures

2. Construct Deck
knowledge of wood decking
knowledge of aluminum decking
knowledge of composite decking
knowledge of vinyl decking
knowledge of concrete decking
knowledge of steel decking
knowledge of fiberglass decking
knowledge of fasteners
knowledge of carpentry
knowledge of environmental regulations
knowledge of metallurgical reactions

3. Install Roof System
knowledge of wood shingles
knowledge of wood shakes
knowledge of asphalt shingles
knowledge of fiberglass shingles
knowledge of carpentry
knowledge of fastening systems
4. Install Boat Lifts
knowledge of Friction Mean Effective Pressure (FMEP)
knowledge of mooring of vessels
knowledge of local, state, and federal codes and regulations
knowledge of boat lift product specifications
knowledge of vessels
knowledge of pile bearing capacity
knowledge of boat lift accessories
knowledge of bunking systems
knowledge of davits
knowledge of piling installation
knowledge of metallurgical properties

5. Construct Boat Ramps
knowledge of local, state, and federal codes and regulations
knowledge of soil conditions
knowledge of concrete
knowledge of heavy equipment
knowledge of cofferdams
knowledge of water elevations
knowledge of sump pumps
knowledge of reinforcing steel
knowledge of surveying
knowledge of environmental protection measures
knowledge of boat ramp usage
knowledge of navigational aids

Content Area J 6%
Executing Close-Out Procedures

1. Clean-Up Job Site
knowledge of disposal methods
knowledge of scope of work
knowledge of heavy equipment
knowledge of navigational aids
knowledge of water elevations
knowledge of vessel operations
knowledge of vehicle operations
knowledge of rigging

2. Perform Final Inspections
knowledge of surveying
knowledge of scope of work
knowledge of permitting specifications
knowledge of contract management practices
knowledge of close-out documentation