Operations Management

CREDIT HOURS: 3
LEVEL: UPPER

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Before You Choose This UExcel Exam

Uses for the Examination

- Excelsior College, the test developer, recommends granting three (3) semester hours of upper-level undergraduate credit to students who receive a letter grade of C or higher on this examination.

- Other colleges and universities also recognize this exam as a basis for granting credit or advanced standing.

- Individual institutions set their own policies for the amount of credit awarded and the minimum acceptable score.

Examinees who have applied to Excelsior College should ask their academic advisor where this exam fits within their degree program.

Examinees not enrolled in an Excelsior College degree program should check with the institution from which they wish to receive credit to determine whether credit will be granted and/or to find out the minimum grade required for credit. Those who intend to enroll at Excelsior College should ask an admissions counselor where this exam fits within their intended degree program.

For more information on exam availability and actual testing information, see the Exam Registration and Information Guide.

Examination Length and Scoring

This examination consists of 80 multiple choice and other type questions. You will have two (2) hours to complete the exam. Your score will be reported as a letter grade. Questions are scored either correct (1) or incorrect (0). There is no partial credit. Each credit-bearing exam contains pretest questions, which are embedded throughout the exam. They are indistinguishable from the scored questions. It is to your advantage to do your best on all the questions. Pretest questions are being tried out for use in future versions of the exam.

The UExcel exams do not have a fixed grading scale such as A = 90–100%, B = 80–90%, and so forth, as you might have seen on some exams in college courses. Each UExcel test has a scale that is set by a faculty committee and is different for each exam. The process, called standard setting, is described in more detail in the Technical Handbook. Excelsior puts each exam through a standard setting because different test questions have different levels of difficulty. To explain further, getting 70% of the questions right on the exam when the questions are easy does not show the same level of proficiency as getting 70% of questions correct when the questions are hard. Every form of a test (a form contains the test questions) has its own specific grading scale tailored to the particular questions on each exam form.

Please also note that on each form, some of the questions (referred to as pretest questions) count toward the score and some do not; the grading scale applies only to those questions that count toward the score. The area with percentage ratings on the second page of your score report is intended to help identify relative strengths and weaknesses and which content areas to emphasize, should you decide to take the examination again. Your grade
is based on only the scored questions. Therefore, the percentage ratings do not necessarily reflect the total percentage that counted toward your grade.

For the best view of the types of questions on this exam, see the sample questions in the back of this guide. Practice, practice, practice!

**Score Reporting**

For most of our examinations, based on performance, an examinee is awarded a letter grade of A, B, C, or F. A letter grade of D can be given, but credit is awarded for A, B, and C letter grades only. The letter grades reported to examinees indicate that their performance was equivalent to the performance of students who received the same letter grade in a comparable, on-campus course.

More specifically, the letter grade indicates the examinee’s proficiency relative to the learning outcomes specified in the exam content guide. Following are general descriptions of examinee performance at each level:

### Letter Grade Description

**A** Highly Competent: Examinee’s performance demonstrates an advanced level of knowledge and skill relative to the learning outcomes.

**B** Competent: Examinee’s performance demonstrates a good level of knowledge and skill relative to the learning outcomes.

**C** Marginally Competent: Examinee’s performance demonstrates a satisfactory level of knowledge and skill relative to the learning outcomes.

**D** Not Competent (no credit recommended): Examinee’s performance demonstrates weak knowledge of the content and minimal skill relative to the learning outcomes.\(^\circ\)

**F** Fail (no credit recommended): Examinee’s performance demonstrates no knowledge of the content and no skill in the subject relative to the learning outcomes.

Credit is transcripted by Excelsior College for examinees who achieve letter grades of C or higher.

We encourage colleges and universities to use the Excelsior College letter grades of A, B, and C as acceptable standards for awarding credit.

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\(^\circ\) In general, two-hour exams do not award a D letter grade.

See page 25, at the back of this content guide, for a sample UExcel Grade Report for Examinations.

### Excelsior College Bookstore

The Excelsior College Bookstore offers recommended textbooks and other resources to help you prepare for UExcel exams.

The bookstore is available online at (login required): www.excelsior.edu/bookstore

### Excelsior College Library

Library services are available to students enrolled in a degree program at Excelsior College. Created through our partnership with the Sheridan Libraries of The Johns Hopkins University, the library provides access to journal articles, books, websites, databases, reference services, and many other resources. To access the Excelsior College Library, visit www.excelsior.edu/library (login is required). Access to the library is available 24/7.

### Take Charge of Your Own Learning

At Excelsior College, independent, self-directed study supported by resources we help you find is not a new concept. We have always stressed to students who take exams that they are acting as their own teacher, and that they should spend as much time studying for an exam as they would spend in a classroom and on homework for a corresponding college course in the same subject area.

Begin by studying the content outline contained in this content guide, at its most detailed level. You will see exactly which topics are covered, and where chapters on those topics can be found in the Recommended Resources. You will see exactly where you might need to augment your knowledge or change your approach.

The content outline, along with the learning outcomes for this exam and recommended textbooks, will serve as your primary resources.

### How Long Will It Take Me to Study?

Study for a UExcel exam is comparable to an equivalent college-level course. As an independent
learner, you should study and review as much as you would for the same subject in a campus-based college course. If you already have a background in the subject, you may be able to pass the exam successfully with fewer hours of study. It depends upon the learner as well as the subject, the number of credits (for example, a 6- or 8-credit exam will require more hours of study than a 3-credit exam), and the length of the exam. We strongly encourage you to create a long-term action or study plan, so that you have a systematic approach to prepare for the exam. We've included guidelines for creating such a plan.

**How Can I Create an Effective Long-Term Study Plan?**

1. **Determine the time you will require to complete your preparation for this exam.** If you have not studied the subject before, you should plan to budget approximately 45 hours of study time for every credit: 135 hours for 3 credits, 180 hours for 4 credits, 270 hours for 6 credits, and 360 hours for 8 credits. These hours are rules of thumb based on expectations for a student taking a course in the subject; it may take you more or less time, depending on how familiar you are with the material and how easily you absorb the information studying on your own. Aside from the content review, you should then factor in time to search for and use other resources, and to complete any projects and assignments in the study materials that will clarify your understanding of the topics in the content outline (that part in the content guide where the specific areas of study are spelled out). Spend more time on concepts and areas in which you feel you are weak. Toted, this is approximately the amount of time you should expect to devote to a three-credit, campus-based course. The actual amount of time you require depends on many factors, and will be approximate. If your background is weak, you may need to set aside substantially more than 135–150 hours. If your background is strong, you may budget less time.

   Take a few minutes to review the content outline to assess your familiarity with the content. Then, in the space below, write the number of hours you will allocate to complete preparing for the exam.

   Hours Required =

2. **Determine the time you will have available for study.**

   In self-study, you need structure, as well as motivation and persistence, and a methodical approach to preparation. There is no set class to keep you on task. You have to do that yourself. Construct a time-use chart to record your daily activities over a one-week period. The most accurate way to do this is to complete the chart on a daily basis to record the actual amount of time you spend eating, sleeping, commuting, working, watching television, caring for others and yourself, reading, and everything else in an adult's life. However, if your schedule is regular, you might prefer to complete the chart in one sitting and, perhaps, by consulting your appointment book or planner.

   After you have recorded your activities, you will be ready to schedule study periods around these activities or, perhaps, instead of some of them. In the space below, write the number of hours you will be able to set aside for study each week.

   Hours Required =

3. **Divide the first number by the second number.**

   This will give you the number of weeks you will need to set aside for independent study. For example, if you think you will require 170 hours of study and you have 10 hours available to study each week, divide 170 hours by 10 hours and you will get 17. This means that you will need about 17 weeks to complete this course of study. However, you will also need to allow about a week for review and self-testing. Moreover, to be on the safe side, you should also add two weeks to allow for unforeseen obstacles and times when you know you will not be able to study (e.g., during family illnesses or holidays). So, in this case, you should allot a total of 18 to 19 weeks to complete your study.

4. **Schedule your examination to coincide with the end of your study period.**

   For example, if you plan to allow 18 weeks for study, identify a suitable examination date and begin study at least 18 weeks before that date. (The date you begin study assumes that you will have received all of your study materials, particularly textbooks, by that time.)
5. Format a long-term study plan.

You will need to use a calendar, planner, or some other tool to format and track your long-term study plan. Choose a method that is convenient and one that keeps you aware of your study habits on a daily basis. Identify the days and exact hours of each day that you will reserve for study throughout your whole independent study period. Check to see that the total number of hours you designate for study on your long-term study plan adds up to the number of hours you have determined you will need to complete this course of study (Step 1).

6. Record in your long-term study plan the content you plan to cover during each study period.

Enter the session numbers, review, and examination preparation activities you will complete during each study period. While it is suggested that approximately 160–170 hours of study is required for this exam, each and every student may require different timelines based on their comfort with, and comprehension of, the material.

You now have a tentative personal long-term study plan. Keep in mind that you will have to adjust your study plan, perhaps several times, as you study. It is only by actually beginning to work systematically through the material, using the content outline, that you will be able to determine accurately how long you should allow for each unit.

### What Learning Strategy Should I Use?

The following guidelines are intended to help you acquire the grounding in the knowledge and skills required for successful completion of this examination.

1. **Approach learning with a positive attitude.**
   
   Most students are capable of learning subject content if they devote enough time and effort to the task. This devotion will give you a positive edge and a feeling of control.

2. **Diligently complete the exact work you specified in your study plan.**
   
   Your study plan is being designed for the specific purpose of helping you achieve the learning outcomes for this exam.

3. **Be an active learner.**
   
   You should actively engage in the learning process. Read critically, take notes, and continuously monitor your comprehension. Keep a written record of your progress, highlight content you find difficult to grasp, and seek assistance from someone in your learning community who can help you if you have difficulty understanding a concept.

4. **Be patient: you may not understand everything immediately.**
   
   When encountering difficulty with new material, be patient with yourself and don't give up. Understanding will come with time and further study. Sometimes you may need to take a break and come back to difficult material. This is especially true for any primary source material (original letters, documents, and so forth) that you may be asked to read. The content outline will guide you through the material and help you focus on key points. You will find that many concepts introduced in earlier sessions will be explained in more detail in later sessions.

5. **Apply your learning to your daily life.**
   
   Use insights you gain from your study to better understand the world in which you live. Apply the learning whenever you can. Look for instances that support or contradict your reading on the subject.

6. **Accommodate your preferred way of learning.**
   
   How do you learn best? Common ways to learn are reading, taking notes and making diagrams, and by listening to someone (on video or live). Others learn by doing. Do any of these descriptions apply to you? Or does your learning style vary with the learning situation? Decide what works for you and try to create a learning environment to accommodate your preferences.

### Study Tips

Become an active user of the resource materials. Aim for understanding rather than memorization. The more active you are when you study, the more likely you will be to retain, understand, and apply the information.

The following techniques are generally considered to be active learning:

- preview or survey each chapter
• highlight or underline text you believe is important
• write questions or comments in the margins
• practice re-stating content in your own words
• relate what you are reading to the chapter title, section headings, and other organizing elements of the textbook
• find ways to engage your eyes, your ears, and your muscles, as well as your brain, in your studies
• study with a partner or a small group
• prepare your review notes as flashcards or create recordings that you can use while commuting or exercising

When you feel confident that you understand a content area, review what you have learned. Take a second look at the material to evaluate your understanding. If you have a study partner, the two of you can review by explaining the content to each other or writing test questions for each other to answer. Review questions from textbook chapters may be helpful for partner or individual study, as well.

Study smart for your UExcel exam! Success starts with establishing a relationship with your advisor.

Using UExcel Practice Exams

The official UExcel practice exams are highly recommended as part of your study plan. They can be taken using any computer with a supported web browser such as Google Chrome.

The practice exam package comes with two sets of questions. Please be aware that there will be fewer questions on the practice exams than there will be on the exam you take for credit. Generally, the practice questions will not be the same as the ones you will see when you take the actual exam for credit. They are intended to expose you to the types of questions you'll encounter in the actual exam. Practice questions are a tool, and do not provide a full exam experience. For example, the practice question sets do not have time limitations. Begin with the Content Guide, especially the detailed content outline. Memorizing specific questions and answers on the practice sets is not as effective as using the questions to practice, along with the content outline, to see which concepts you may need to study further. To register for the practice exam, visit www.excelsior.edu and log into your MyExcelsior account. Please note: You must be registered for the corresponding credit-bearing exam before you can register for the practice exam.

Practice exams are not graded. Rather, they are intended to help you make sure you understand the subject and give you a sense of what the questions will be like on the exam for credit. Ideally, you would check any questions you got wrong, look at the explanations, and go back to the textbook to reinforce your understanding. After taking both forms of the practice exam, you should feel confident in your answers and confident that you know the material listed in the content outline.

Practice exams are one of the most popular study resources. Practice exams are typically shorter than the credit-bearing exam. Since the questions are drawn from the same pool of questions that appear on the credit-bearing exam, what you will see when you sit for the graded exam will be roughly the same. Used as intended, these practice exams will enable you to:

• Review the types of questions you may encounter on the actual exam.
• Practice testing on a computer in a timed environment.
• Practice whenever and wherever it is convenient for you.

Take two different forms of a practice exam within a 180-day period. (We highly recommend that you take the first form of the practice exam as a pretest, early in the study period. Use the results to identify areas to further study and carry out a plan. Then take the second form as a post-test and see how much you have improved.)

Although there is no guarantee, our research suggests that exam takers who do well on the practice exams are more likely to pass the actual exam than those who do not take advantage of the opportunity. Note that since the practice exams are not graded (calibrated) the same way as the scores on the credit-bearing exam, it will be hard for you to use the practice exams as a way to predict your score on the credit-bearing exam. The main purpose of the practice exams is for you to check your knowledge and to become comfortable with the types of questions you are likely to see in the actual, credit-bearing exam.
About Test Preparation Services

Preparation for UExcel® exams and Excelsior College® Examinations, though based on independent study, is supported by Excelsior College with a comprehensive set of exam learning resources and services designed to help you succeed. These learning resources are prepared by Excelsior College so you can be assured that they are current and cover the content you are expected to master for the exams. These resources, and your desire to learn, are usually all that you will need to succeed.

There are test-preparation companies that will offer to help you study for our examinations. Some may imply a relationship with Excelsior College and/or make claims that their products and services are all that you need to prepare for our examinations.

Excelsior College does not endorse the products and services of any tutorial or test preparation firm. We do not review the materials provided by these firms for the content or compatibility of their material and resources with UExcel® exams or Excelsior College Examinations®. No test preparation vendor is authorized to provide admissions counseling or academic advising services, or to collect any payments, on behalf of Excelsior College. Excelsior College does not send authorized representatives to a student’s home nor does it review the materials provided by test preparation companies for content or compatibility with Excelsior College examinations.

To help you become a well-informed consumer, we suggest that before you make any purchase decision regarding study materials provided by organizations other than Excelsior College, you consider the points outlined on our website at www.excelsior.edu/testprep.

Content Guides

This content guide is the most important resource. It lists the outcomes, a detailed content outline of what is covered, and textbooks and other study resources. It also has sample questions and suggestions for how to study. Content guides are updated periodically to correspond with changes in particular examinations and in textbook editions. Examinees can download any of the latest free UExcel content guides by visiting the individual exam page or from the list at www.excelsior.edu/contentguides.

Using the Content Outline

Each content area in the content outline includes the most important sections of the recommended resources for that area. These annotations are not intended to be comprehensive. You may need to refer to other chapters in the recommended textbooks. Chapter numbers and titles may differ among textbook editions.

This content outline contains examples of the types of information you should study. Although these examples are many, do not assume that everything on the exam will come from these examples. Conversely, do not expect that every detail you study will appear on the exam. Any exam is only a broad sample of all the questions that could be asked about the subject matter.

Using the Sample Questions and Rationales

Each content guide provides sample questions to illustrate those typically found on the exam. These questions are intended to give you an idea of the level of knowledge expected and the way questions are typically phrased. The sample questions do not sample the entire content of the exam and are not intended to serve as an entire practice test.

Exam Preparation Strategies

Each learner is different. However, all learners should read the content outline in the exam’s Content Guide and ensure that they have mastered the concepts. For someone with no prior knowledge of the subject, a rule of thumb is 135 hours of study for a 3-credit exam—this number is just to give you an idea of the level of effort you will need, more or less.
Recommended Resources for the UExcel Exam in Operations Management

The resources listed below were selected by the faculty members on the examination committee for use in developing this exam.

Resources listed under “Strongly Recommended” were used by the committee to verify all the questions on the exam. Please refer to the Content Outline to see which parts of the exam are cross-referenced to these resources.

Resources listed under “Optional” provide additional material that may deepen or broaden your understanding of the subject, or that may provide an additional perspective on the exam content.

Textbook resources, both Strongly Recommended and Optional, may be purchased from the Excelsior College Bookstore.

You should allow ample time to obtain the necessary resources and to study sufficiently before taking the exam, so plan appropriately, with an eye towards your own personal learning needs. See the sections in this guide on the Excelsior College Bookstore and the Excelsior College Library, and under Reducing Textbook Costs, to help you secure the Strongly Recommended resources successfully.

Textbook Editions

Textbook editions listed in the UExcel content guides may not be the same as those listed in the bookstore. Textbook editions may not exactly match up in terms of table of contents and organization, depending upon the edition. However, our team of exam developers checks exam content against every new textbook edition to verify that all subject areas tested in the exam are still adequately available in the study materials. If needed, exam developers will list additional Strongly Recommended resources to ensure that all topics in the exam are still sufficiently covered. Public libraries may have the textbooks you need, or may be able to obtain them for you through interlibrary loan to reduce textbook costs. You may also consider financial aid, if you qualify, to further help defray the steep cost of textbooks. A section on open educational resources (OER) has been included in this guide to help you locate additional, possibly free resources to augment your study.

Strongly Recommended


The study materials may be purchased from the Excelsior College Bookstore.

Optional Resources

The examination development committee did not identify any specific Optional resources for this exam. If you would like to explore topics in more depth, we encourage you to refer to available Open Educational Resources (OER).

Reducing Textbook Costs

Many students know it is less expensive to buy a used textbook, and buying a previous edition is also an option. The Excelsior College bookstore includes a buyback feature and a used book marketplace, as well as the ability to rent digital versions of textbooks for as long as students need them. Students are encouraged to explore these and the many other opportunities available online to help defray textbook costs.

Open Educational Resources

There are many resources available online free of charge that may further enhance your study for the exam. Known as Open Educational Resources (OER), these may be textbooks, courses, tutorials, or encyclopedias. Any additional OER that you find independently should be used to augment study—not as replacements for the Strongly Recommended resources.

Most sites for university-based OER can be searched through www.ocwconsortium.org and/or www.oercommons.org.

Sites that specialize in web courses designed by college professors under contract with the website sponsor, rather than in web versions of existing college courses, include:

www.education-portal.com
www.opencourselibrary.org (abbreviated as OCL)
We have included specific courses that cover material for one or more UExcel® exams from the sites in the listings above. It’s worth checking these sites frequently to see if new courses have been added that may be more appropriate or may cover an exam topic not currently listed.

Sites like Khan Academy (www.khanacademy.com) and iTunes U feature relatively brief lessons on very specific topics rather than full courses. Full courses are also available on iTunes U (http://www.apple.com/education/ipad/itunes-u/). We have chosen a few courses and collections for this listing.

### Open Online Textbooks
- **BookBoon**
- **Flatworld Knowledge**
  - http://catalog.flatworldknowledge.com/#our-catalog

### College Readiness
- **Khan Academy**
  - http://www.khanacademy.org/
- **Hippocampus**
  - http://www.hippocampus.org/
- **Open Course Library**

### Study Aids
- **Education Portal**
  - http://education-portal.com/
- **Khan Academy**
  - http://www.khanacademy.org/
- **Annenberg Learner**
  - http://www.learner.org/
- **OpenCourseWear**
- **OER Commons**
  - http://www.oercommons.org/
- **Open Course Library**
  - http://www.opencourselibrary.org/

To achieve academic success, rate yourself at Excelsior College’s Self-Regulated Learning Lab. Visit the Diagnostic Assessment & Achievement of College Skills site at https://srl.daacs.net/

It’s free!
General Description of the Examination

The UExcel Operations Management examination is based on material typically taught in a one-semester, three-credit, upper-level course in operations management.

This examination measures knowledge of facts and terminology and understanding of concepts essential to designing, creating, managing, and improving supply chains and operations, and the ability to apply the concepts to typical business situations. The exam does not test spreadsheet skills.

Those beginning to study for this exam should have a strong understanding of business statistics and high-school level algebra, but no prior knowledge of business is required before beginning study for this exam.

Learning Outcomes

After you have successfully worked your way through the recommended study materials, you should be able to demonstrate the following learning outcomes:

1. Understand the strategic importance of deploying the basic functions of operations management in an effective manner.
2. Describe the role of operations management in organizations.
3. Demonstrate an understanding of how products, services, and facilities are designed.
4. Identify how a supply chain is created and managed. (Aligns to GECC 2.2)
5. Interpret the various methodologies of planning, scheduling, and forecasting. (Aligns to GECC 2.2)

General Education Career Competencies Addressed in this Exam

GECC-2: Mathematical and Scientific Problem Solving: Apply mathematical concepts and reasoning to solve problems that involve quantitative information.
Content Outline

The content outline describes the various areas of the test, similar to the way a syllabus outlines a course. To fully prepare requires self-direction and discipline. Study involves careful reading, reflection, and systematic review.

The major content areas on the Operations Management examination, the percent of the examination, and the hours to devote to each content area are listed below.

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<tr>
<th>Content Area</th>
<th>Percent of the Examination</th>
<th>Hours of Study*</th>
</tr>
</thead>
<tbody>
<tr>
<td>I. The Operations and Supply Chain Environment</td>
<td>25%</td>
<td>34</td>
</tr>
<tr>
<td>II. Designing and Improving Operations and Supply Chains</td>
<td>25%</td>
<td>34</td>
</tr>
<tr>
<td>III. Creating and Managing the Supply Chain</td>
<td>25%</td>
<td>34</td>
</tr>
<tr>
<td>IV. Planning and Control</td>
<td>25%</td>
<td>34</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>100%</strong></td>
<td></td>
</tr>
</tbody>
</table>

*Approximate: For those examinees who know the topic well, less time may be needed to learn the subject matter. For those who are new to the subject matter, more time may be required for study.

NOTE: Occasionally, examples will be listed for a content topic to help clarify that topic. However, the content of the examination is not limited to the specific examples given.

I. The Operations and Supply Chain Environment

25 PERCENT OF EXAM

- Ch. 1, Introduction to Operations and Supply Chain Management
- Ch. 1-S1, Operational Decision-Making Tools: Decision Analysis
- Ch. 2, Quality Management
- Ch. 3, Statistical Process Control
- Ch. 3-S3, Operational Decision-Making Tools: Acceptance Sampling
- Ch. 9, Project Management

A. Introduction to operations and supply chain management

1. Operations function
2. Evolution of operations and supply chain management
3. Globalization
4. Productivity and competitiveness
   a. Single-factor productivity
   b. Multi-factor productivity
   c. Total factor productivity
5. Strategy and operations
   a. Core competencies
   b. Order winners and qualifiers
   c. Positioning the firm
   d. Strategy deployment
      1) Policy deployment
      2) Balanced scorecard
6. Decision making framework
a. Decision making under uncertainty
b. Decision making under risk
c. Decision trees

B. Management of quality
1. Defining quality
   a. Dimensions of product quality
   b. Dimensions of quality for services
2. Quality management systems
   a. Evolution of quality
   b. Quality gurus
      1) Shewhart
      2) Deming [not the 14 points]
      3) Other gurus
3. Quality tools
   a. Process flowcharts
   b. Cause-and-effect diagrams
   c. Checksheets and histograms
   d. Pareto analysis
   e. Scatter diagrams
   f. Process control charts
   g. Statistical quality control
4. Total quality management (TQM) and quality management systems (QMS)
5. Customers
6. Employees
   a. Kaizen
   b. Quality circles
   c. Process improvement teams
7. Quality and services
8. Six Sigma
   a. DPMO
   b. Six Sigma process
   c. DMAIC
   d. Black and Green Belts
   e. Design for Six Sigma
   f. Lean Six Sigma
   g. Profitability
9. Cost of quality
   a. Prevention, appraisal, internal failure and external failure costs
   b. Quality-cost relationship
10. The effect of quality management on productivity
11. Quality awards and standards
    a. Malcolm Baldrige Award
    b. ISO Standards

C. Monitoring and controlling quality
1. The basics of statistical process control
2. Control charts
   a. Control charts for attributes
      1) p-chart
      2) c-chart
   b. Control chart for variables
      1) Mean chart
      2) Range chart
   c. Control chart patterns
3. Process capability
   a. Measures
D. Project Management
1. Project planning
   a. Project return
   b. Project team
   c. Scope statement
   d. Work breakdown structure
   e. Responsibility assignment matrix
2. Global and diversity issues
3. Project scheduling
   a. Gantt charts
4. Project control
5. Critical path method (CPM)
   a. Network diagrams
      1) AOA network
      2) AON network
   b. Critical path
   c. Activity scheduling
II. Designing and Improving Operations and Supply Chains

25 PERCENT OF EXAM

Ch. 4, Product Design
Ch. 5, Service Design
Ch. 6, Processes and Technology
Ch. 7, Capacity and Facilities Design
Ch. 7-S7, Operational Decision-Making Tools: Facility Location Models

A. Product design
1. The design process
2. Rapid prototyping and concurrent design
   a. Form design
   b. Functional design
      1) Reliability
      2) Maintainability
      3) Usability
   c. Production design
3. Technology
4. Design quality reviews
   a. Failure mode and effects analysis (FMEA)
   b. Fault tree analysis (FTA)
   c. Value analysis (VA)
5. Design for environment
   a. Green sourcing
   b. Green manufacture
   c. Recycling and reuse
6. Quality function deployment (QFD)

B. Service design
1. Service economy
2. Characteristics of services
3. Service design process
   a. Service process matrix
4. Tools for service design
   a. Service blueprinting
   b. Front office activities
   c. Back office activities
   d. Servicescapes
5. Waiting line analysis
   a. Elements
   b. Operating characteristics
   c. Cost relationship
   d. Psychology of waiting
   e. Waiting line models
      1) Single-server model
      2) Advanced single-server models

C. Processes and technology
1. Process planning
   a. Outsourcing
   b. Process selection
   c. Breakeven analysis
   d. Process plans
2. Process analysis
   a. Process flowcharts
3. Process innovation
4. Technology decisions

D. Capacity and facilities design
1. Capacity planning
   a. Lead strategy
   b. Lag strategy
   c. Average strategy
   d. Economies and diseconomies of scale
2. Facilities
3. Basic layouts
   a. Process layout
   b. Product layout
   c. Fixed position layout

E. Facility location models
1. Site selection
2. Global supply chain factors
3. Location analysis
   a. Location factor rating
   b. Center of gravity method
   c. Load distance technique
4. Designing process layouts
   a. Block diagramming
   b. Relationship diagramming
   c. Computerized layout solutions
5. Designing service layouts
6. Designing product layouts
   a. Line balancing
7. Hybrid layouts
   a. Cellular
   b. Flexible manufacturing systems
   c. Mixed-model assembly

III. Creating and Managing the Supply Chain

25 PERCENT OF EXAM

| Ch. 10, Supply Chain Management Strategy and Design |
| Ch. 11, Global Supply Chain Procurement and Distribution |
| Ch. 13, Inventory Management |
| Ch. 16, Lean Systems |

A. Supply chain strategy and design
1. Supply chains
2. Management of supply chains
   a. Supply chain uncertainty
   b. Bullwhip effect
   c. Risk pooling
   d. Green supply chains
3. Information technology
   a. e-business
   b. EDI
   c. Bar codes
   d. RFID

B. Global supply chain procurement and distribution
1. Procurement
   a. Selection of suppliers
   b. Outsourcing
   c. e-procurement
   d. e-marketplaces
   e. Reverse auctions
2. Distribution
   a. Postponement
   b. Warehouse management systems
   c. Vendor managed inventory
   d. Distribution outsourcing
3. Transportation
   a. Internet transportation exchanges
4. Global supply chain
   a. Obstacles
   b. Duties and tariffs
   c. Landed cost
   d. Recent trends in the supply chain
   e. Reverse globalization
   f. Effects of terrorism

C. Inventory management
1. Role of inventory in supply chain management
   a. Effects of IT on inventory management
2. Elements of inventory management
   a. Demand
   b. Inventory costs
3. Inventory control systems
a. Continuous inventory systems
b. Periodic inventory systems
c. ABC classification system

4. Economic order quantity models
   a. EOQ model
   b. Quantity discounts

5. Reorder point
   a. Safety stocks
   b. Service levels
   c. Reorder point with variable demand

D. Lean systems

1. Basic elements of lean production
   a. Flexible resources
   b. Cellular layouts
   c. Pull system
   d. Kanbans
   e. Small lots
   f. Quick setups
   g. Uniform production levels
   h. Quality at the source
   i. Visual control
   j. Kaizen
   k. Jidoka
   l. TPM
   m. Supplier networks

2. Benefits of lean production

3. Implementing lean
   a. Drawbacks of lean

4. Lean services
   a. Lean Six Sigma
   b. Value stream mapping

IV. Planning and Control

25 PERCENT OF EXAM

Ch. 12, Forecasting
Ch. 14, Sales and Operations Planning
Ch. 15, Resource Planning
Ch. 17, Scheduling

A. Forecasting

1. Strategic role
   a. Supply chain management
   b. Quality management

2. Components of forecasting demand
   a. Time frame
   b. Demand behavior

3. Forecasting methods

4. Forecasting process

5. Time series methods
   a. Moving average
   b. Weighted moving average
   c. Exponential smoothing
   d. Linear trend line
   e. Seasonal adjustments

6. Forecast accuracy
   a. Mean absolute deviation
   b. MAPD
   c. Cumulative error
   d. Mean square error
   e. Forecast control

7. Regression methods
   a. Linear regression

B. Sales and operations planning

1. Sales and operations planning process

2. Strategies for adjusting capacity
   a. Level production
   b. Chase demand
   c. Peak demand
   d. Overtime
e. Undertime
f. Subcontracting
g. Part-time workers
h. Backlogs, backordering, and lost sales

3. Strategies for managing demand

4. Quantitative techniques
   a. Pure strategies
   b. Mixed strategies
   c. Transportation method

5. Aggregate planning for services
   a. Revenue management

C. Resource planning
   1. Material requirements planning (MRP)
      a. When to use MRP
      b. Master production schedule
      c. Product structure file
      d. Time phased bills
      e. Item master file
      f. MRP process
      g. Lot sizing in MRP systems
      h. MRP outputs
   2. Capacity requirements planning (CRP)
   3. Enterprise resource planning (ERP)
   4. Customer relationship management
   5. Connectivity, integration, and services

D. Scheduling
   1. Objectives in scheduling
   2. Assignment
   3. Sequencing
      a. Sequencing through one process
      b. Sequencing through two serial processes
      c. Guidelines to selecting a sequencing rule
   4. Monitoring
      a. Gantt charts
      b. Input output control

5. Advanced planning and scheduling systems
6. Theory of constraints
7. Employee scheduling
Sample Questions

The sample questions give you an idea of the level of knowledge expected in the exam and how questions are typically phrased. They are not representative of the entire content of the exam and are not intended to serve as a practice test.

Rationales for the questions can be found on pages 19–21 of this guide. In that section, the correct answer is identified and each answer is explained. The number in parentheses at the beginning of each rationale refers to the corresponding section of the content outline. For any questions you answer incorrectly, return to that section of the content outline for further study.

1. How do job responsibilities of green belts differ from those of black belts?
   1) Green belts will lead more projects than black belts.
   2) Green belts are more highly trained than black belts.
   3) Green belts are part-time members of a project team.
   4) Green belts monitor, review, and mentor black belts.

2. What is the first step of the lean approach to process improvement?
   1) determining what creates value for the customer
   2) making the process responsive to customer needs
   3) removing waste along the value stream through process improvements
   4) identifying the sequence of activities that create value and eliminating those that do not add value

3. Consider the following workstations with their respective measurements for quality outcomes

<table>
<thead>
<tr>
<th>Workstation</th>
<th>Process Measurement</th>
<th>Control Chart</th>
<th>Population Mean</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cutting</td>
<td>Length (in inches)</td>
<td>$\bar{X}$-chart and $R$-chart</td>
<td>20 inches</td>
</tr>
<tr>
<td>Grinding</td>
<td>Thickness (in inches)</td>
<td>$\bar{X}$-chart and $R$-chart</td>
<td>1.5 inches</td>
</tr>
<tr>
<td>Final inspection</td>
<td>Proportion defective</td>
<td>$p$-chart</td>
<td>1.5% defective</td>
</tr>
<tr>
<td>Packaging</td>
<td>Defects</td>
<td>$c$-chart</td>
<td>0.5 defects</td>
</tr>
</tbody>
</table>

Which sample sizes would be appropriate?
(Select the 3 that apply.)
1) sample size of 50 for the final inspection
2) sample size of 20 for the final inspection
3) sample size of 2 for the cutting operation
4) sample size of 5 for the grinding operation
5) sample size of 1 for the packaging operation
4. Base your answer to this question on the information below:

<table>
<thead>
<tr>
<th>Activity</th>
<th>Normal Time (hours)</th>
<th>Crash Time (hours)</th>
<th>Normal Cost</th>
<th>Crash Cost</th>
<th>Total Allowable Crash Time (hours)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>1</td>
<td>1</td>
<td>$500</td>
<td>$500</td>
<td>0</td>
</tr>
<tr>
<td>2</td>
<td>4</td>
<td>2</td>
<td>$1,800</td>
<td>$2,800</td>
<td>2</td>
</tr>
<tr>
<td>3</td>
<td>2</td>
<td>1</td>
<td>$650</td>
<td>$850</td>
<td>1</td>
</tr>
<tr>
<td>4</td>
<td>3</td>
<td>2</td>
<td>$2,400</td>
<td>$3,200</td>
<td>1</td>
</tr>
<tr>
<td>5</td>
<td>2</td>
<td>1</td>
<td>$1,200</td>
<td>$1,500</td>
<td>1</td>
</tr>
<tr>
<td>6</td>
<td>1</td>
<td>1</td>
<td>$425</td>
<td>$425</td>
<td>0</td>
</tr>
</tbody>
</table>

What is the maximum number of hours by which this project can be crashed?
1) 0
2) 1
3) 2
4) 3

5. In a house of quality matrix, who makes the competitive assessment?
1) the engineer
2) the manager
3) the customer
4) a competitor

6. Which production process is highest in volume and standardization?
1) project
2) batch production
3) mass production
4) mass production

7. Which correctly describes the business climate in Mexico?
1) The wage rate in Mexico is half that of China.
2) Trade regulations are being lowered in Mexico.
3) Mexico is currently the largest exporter of goods to the United States.
4) Quality management systems are similar to those in the United States.

8. Which is an effect of 9/11 on the global supply chains of American firms?
1) Lead time to deliver products has decreased.
2) Documentation requirements have been reduced.
3) Bills of lading are required to be written in French and English.
4) Increased security measures have been put in place on US imports.

9. What will be the forecast for the month of October using a 3-period moving average and weights of 0.2, 0.3 and 0.5, if the demand during the months of May, June, July, August, and September was 200, 180, 210, 200, and 220 respectively?
1) 200
2) 207
3) 212
4) 225

10. Which of the following seeks to minimize costs where the hiring and firing options are not included as a managerial option?
1) linear decision rule
2) transportation method
3) linear programming model
4) chase demand
11. General Dynamics, Inc. uses a computer algorithm to identify a combination of labor and costs in order to develop a low-cost plan for the production of a battleship. This is most likely an example of which decision rule?

1) linear decision rule
2) search decision rule
3) linear programming model
4) transportation method

12. Which type of bill groups small, loose parts under one pseudo-item number?

1) phantom
2) K
3) time-phased
4) modular

13. Top Wheels Bike is a motor bike manufacturing company that can design motor bikes according to customer’s specifications. The following options are available:

Sizes of engine: 3
Number of colors: 8
Number of front wheels: 4
Number of headlights: 6

How many modular bills of materials are available for Top Wheels Bike?

1) 15
2) 21
3) 210
4) 576
Rationales

1.(IB8d)
1) Green belts are project members, not project leaders.
2) Green belts receive similar training as black belts, but the training is not as extensive.
*3) Green belts are part-time project members who do not spend all of their time on projects.
4) Master black belts monitor, review, and mentor black belts.

2.(IB8f)
*1) Determining how the customer perceives value is the first step of the lean approach.
2) Making the process responsive to customer needs is the fourth step.
3) Removing waste along the value stream is the third step.
4) Identifying the value stream is the second step.

3.(IC2c)
1) Sample size of 50 is not suitable for use for the \( p \)-chart in this situation, since the population mean is only 1.5% defective. 1.5% of 50 is even less than 1 defective out of 50, and therefore the SPC analysis would not yield useful results.
2) See 1).
*3) Sample size of 2 is suitable for use in variable control charts.
*4) See 3).
*5) In using a \( c \)-chart, we would be simply counting the number of defects out of a sample size of 1 (i.e., from each end product).

4.(ID6)
1) See 4).
2) See 4).
3) See 4).
*4) The critical path is 1-2-6 for a total time of 7 hours. In order to crash the project, activity 1 on the critical path is the least expensive option, costing $600 to crash by one hour. Then activity 2 can be crashed by an hour at an additional cost of $500 per hour for a total of $1100 to crash both activities. At this point there are 2 critical paths, 1-2-6, and 1-4-6. In order to crash further, we therefore need to crash activity 2 by one hour and activity 4 by one hour. No more activities can possibly be crashed. Hence the total project can be crashed by a maximum of 3 hours.

5.(IIA6)
1) In a house of quality, customers, not engineers, evaluate a firm’s product against that of its competitors.
2) In a house of quality, customers, not managers, evaluate a firm’s product against that of its competitors.
*3) In a house of quality, customers, not competitors, evaluate a firm’s product.
4) In a house of quality, customers, not competitors, evaluate a firm’s product.

*correct answer
6. (IIIC1b) 
1) Projects are extremely low in volume and standardization. They produce one item at a time.
2) In batch production, products are typically made to order, volume is low, and demand fluctuates.
3) Mass production produces large volumes of a standard project for a mass market.
4) Continuous production is used for very high-volume commodity products and is highly automated.

7. (IIIB4d) 
1) Mexican workers earn double what the Chinese make.
2) Trade regulations are increasingly being lowered in Mexico.
3) Mexico is the third largest exporter to the United States.
4) Mexican quality systems are far worse than American quality systems.

8. (IIIB4f) 
1) Lead time has increased since 9/11.
2) Just the opposite is true.
3) The language of bills of lading has nothing to do with 9/11.
4) Security has been increased with more inspection of goods coming into the United States.

9. (IVA5b) 
1) See 3).
2) See 3).
3) Weighted moving average = 
4) See 3).

10. (IVB4c) 
1) Linear decision rule is a mathematical technique used in aggregate planning that allows for hiring and firing workers.
2) An aggregate planning technique that uses linear programming to optimize the workforce and does not allow for hiring and firing of workers is referred to as the transportation method. This method seeks to minimize costs.
3) This is an optimizing approach that can be used to develop a plan that also considers hiring and firing options.
4) Using the chase demand strategy for aggregate planning matches the planned production with the demand. There is a lot of variability in the employment levels as they fluctuate up and down to meet customer demand.

11. (IVB4c) 
1) Linear decision rule is a mathematical technique used in aggregate planning.
2) This involves a computer algorithm that will search for many possible realistic models to reduce costs.
3) This is an optimizing approach that can be used to develop a plan.
4) This method is a special case of linear programming that results in an optimal aggregate.

12. (IVC1c) 
1) Phantom bills are used for transient subassemblies that never see a stockroom because they are immediately consumed in the next stage of manufacture.
2) K-bills group small, loose parts such as nuts and bolts together under one pseudo-item.
3) A time-phased bill is a graphic representation that shows the lead time required to purchase or manufacture an item.
4) Modular bills are used to reduce the number of bills of material that need to be processed by the MRP system.

*correct answer
13. (IVC1c)
   1) See 2).
   2) Modular bill = Number of engine types + 
      Number of colors + number of front wheels + 
      Number of headlights = 3 + 8 + 4 + 6 = 21.
   3) See 2).
   4) See 2).

*correct answer
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The UEExcel exams are delivered by computer. You can take this exam either in a Pearson VUE testing center or at your home or office with an online proctor. If you are interested in remote proctoring, visit PearsonVUE OnVUE online proctoring.

The system is designed to be as user-friendly as possible, even for those with little or no computer experience. On-screen instructions are similar to those you would see in a paper examination booklet. You will use either the keyboard or the mouse to submit your answers, depending upon the type of question.

Before taking your exam, we strongly encourage you to go on a virtual tour of the testing center. To access this tour, click the What to Expect in a Pearson VUE test center at the following link: home.pearsonvue.com/test-taker/security.aspx

You also will receive a small, erasable whiteboard if you need one.

Whiteboards
Examinees cannot bring scratch paper to the exam. Instead, one will be provided for you to write notes or calculations on: a small whiteboard if you are testing at a Pearson Testing Center, and an on-screen “whiteboard” if you are testing online. You can see what the on-screen “whiteboard” looks like, and even try it out.

Calculator
You may not take your own calculator, if the exam calls for it. One will be provided on the testing screen. See example below.
Breaks

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Online Proctoring

As of spring 2021, Excelsior is offering an online delivery option for UExcel exams, using OnVUE, Pearson VUE’s online delivery and proctoring service.

You must use a personal (vs. an employer’s) computer if you want to take the exam online and not in a testing center, so the exam can be effectively delivered to you.

Breaks are not allowed during an exam taken online from home. You may not leave your seat during an online-proctored exam, so be prepared to sit for two or three hours. If you need extra time, the exam will have to be taken at a PearsonVUE Testing Center, and an accommodation formally requested.

NOTE: English Composition, Spanish, Music, and College Writing will NOT be available for online proctoring.

On the Day of Your Exam

Important Reminders

On the day of your exam, remember to:

• dress comfortably: the computer will not mind that you’re wearing your favorite relaxation outfit
• arrive at the test site rested and prepared to concentrate for an extended period
• allow sufficient time to travel, park, and locate the test center
• be prepared for possible variations in temperature at the test center due to weather changes or energy conservation measures
• bring your ID, but otherwise, don’t weigh yourself down with belongings that will have to be kept in a locker during the test.

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• Once the examinee agrees to the terms of the Academic Integrity Nondisclosure Agreement (NDA), the exam will begin.
If you choose not to accept the terms of the agreement

• your exam will be terminated
• you will be required to leave the testing center
• you will not be eligible for a refund. For more information, review the Student Policy Handbook at www.excelsior.edu/studentpolicyhandbook.

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Late Arrivals

You will also forfeit the exam fee if you arrive to the test center more than 15 minutes late.
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Excelsior College, the test developer, recommends granting three (3) semester hours of upper-level undergraduate credit to students who receive a letter grade of C or higher on this examination. The examination may be used to help fulfill the course requirement for the BS in General Business or as a free elective for all Excelsior College degree programs that allow for free electives. Other colleges and universities also recognize this exam as a basis for granting credit or advanced standing. Individual institutions set their own policies for the amount of credit awarded and the minimum acceptable grade.

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Contact ID:
Test Date: 11/21/2020
Letter Grade: C

Examination Code and Title: 210 Statistics
Recommended Credit:
3 Lower Level

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