

**OPSM 4820-001 - MANUFACTURING PLANNING AND CONTROL  
SPRING 2024**

**Instructor:** Dr. Divesh Ojha  
**Office:** BLB 385C  
**Telephone:** 940-565-2862

**Class Room:** BLB 073  
**Class Time:** Tu Th 12:30PM - 1:50PM  
**Office Hrs:** Mo 11:30 to 12:30 PM in  
385C and via Zoom by appointment

**E-Mail:** Use **CANVAS e-mail** only  
**FAX#:** 940-565-4394

**Text:** Jacobs, F.R., Berry, W.L., Whybark, D.C., and Vollman, T.E., Manufacturing Planning and Control For Supply Chain Management, Sixth Edition, McGraw-Hill Irwin, 2011 (Sixth Edition).

Additional Readings may be assigned to various topics throughout the semester.

**OPSM 4820 – Manufacturing Planning and Control for Supply Chain Management:** 3hrs.  
In-depth coverage of the function of production planning and control, including such topics as forecasting, materials requirements planning, capacity planning, master production scheduling, forecasting, production activity planning, and control and project management. Prerequisites(s): OPSM/MGMT 3830.

**COURSE OBJECTIVES:**

- 1) To introduce the student to a broad array of topics that fall under the umbrella of manufacturing planning and control; this includes an exposure to the terminology, concepts, principles, etc. associated with the area.
- 2) To develop a basic understanding of traditional planning techniques used by tactical and operational managers in real world organizations.
- 3) To introduce students to new approaches for planning and control.

**GRADING:**

Assigned Integrative Summaries	15%
Online Review Quizzes	15%
Research Participation	10%
Attendance and Participation	8%
Discussion lead/notes	2%
Group Project	30%
Exam 1, Exam 2, Exam 3 (Exams equally weighted)	20%
<b>Total</b>	<b>100%</b>
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**Optional comprehensive final (taken in lieu of one of the three Exams 1 or 2 or 3)**  
**LATE WORK POLICY:** There is no credit for late work

**EXAMS:** There will be three online examinations each may consist of problems, short answer questions, matching, essay questions, and/or multiple choice. Exams will come from class lectures and discussions, assigned readings, and other materials covered in the course (overhead slides, hand-outs, readings, cases, videos, etc.). There will be no make-up exams except as indicated in UNT policy on *Authorized Absences* and *Absence for Religious Hoildays* in the Undergraduate Catalog, e.g., prior arrangements have been made with the instructor or there is documented evidence of an emergency creating the absence. Exams are not cumulative. \*The final will not be given prior to the scheduled time.

**ONLINE REVIEW QUIZZES:** The online quizzes will be posted on CANVAS.

**GROUP PROJECT** - Each project team is required to carry out a manufacturing planning and control project (MPC), submit a report, and make a presentation. In order for such a major undertaking to be successful, each group needs to select an organization (either a service company or a manufacturing concern or a government agency or a nonprofit institution), make initial contacts, visit the facility, and discuss with one or more of the managers there to understand the MPC process. Relevant information gathered should be carefully analyzed and synthesized to gain insights into the MPC so that meaningful suggestions for improvement can be made.

The project report can be prepared with the aid of the textbook, class notes, and handouts. Use of personal experience, the Internet, and information from other sources should prove helpful and is encouraged. The issues addressed in the paper should be comprehensive and consist of the following:

- (1) Description of the organization. This includes the name, location, and brief history of the firm, the type of industry it is in, the organizational structure, the variety of products made, the volume of each product, the transformation process(es) employed, the types of equipment used, the facility layout, the production strategy adopted, and the labor requirements (for example, skilled and unskilled workforces). Moreover, any MPC-related corporate strategy that is being implemented should be reported as well.
- (2) Description of the MPC function. This includes the size, structure, organizational position, and objectives of the MPC department, the variety of goods, parts, and components bought, the purchase volumes, the number and types of suppliers used, and the information technologies employed.
- (3) Description of the MPC processes, and programs that are currently in place. These include, but are not limited to demand management, sales and operations planning, master production schedule, material requirements planning, capacity requirements

planning, scheduling, distribution requirements planning. Any forms, tables, or graphs used in the MPC system should be documented.

- (4) Analysis and discussion of the existing practices. This includes a critical review of the MPC process in light of all the information collected, identification of its strengths as well as weaknesses, description of concerns raised by the individual(s) interviewed, and initiatives being taken within the organization to address the problems encountered.
- (5) A day in the life of the interviewee. This includes the MPC professional's name, job title, contact information (such as postal mail address, electronic mail address, and work phone number), age group, salary range, educational background, and previous business experiences. In addition, it is necessary to give a detailed account of his/her current work responsibilities, allocation of time among various activities, interaction with colleagues in other functional areas, notable professional accomplishments, career developments (such as MPC related memberships (e.g. APICS, ISM) in professional societies, and participation in conferences/seminars/workshops), future goals, and so on.
- (6) Conclusion and recommendations. This includes a succinct summary of the project undertaken, major findings of the study, specific recommendations for the improvement of the MPC system, and challenges facing the MPC department of the company.

Each team has to submit one typewritten progress reports during the course of the semester. The required format of the submission is shown on this page. Additionally, **each team must turn in two copies of the final project report** in essay form, typewritten, double-spaced, with one-inch margins at the top, bottom, left, and right, and no more than 25 pages of text in Times New Roman font of size 12. A maximum of 15 pages of attachments may be included for clarification purposes. Strict adherence to the guidelines in the *APA Style Manual* is required in preparing the report, so be sure to consult the following book, which is available in the University libraries:

American Psychological Association. *Publication manual of the American Psychological Association* (6<sup>th</sup> ed.) Washington, DC: American Psychological Association, 2010.

Particular attention will be paid to the following areas when a project report is evaluated: content of materials, organization of paper, improvement recommendations made, clarity of presentation, writing style and format, visual illustrations, as well as typographical and grammatical errors if any. The grade will be determined as follows:

<b>Description of organization</b>	<b>15%</b>
<b>Description of MPC function</b>	<b>15%</b>
<b>Description of MPC initiatives and programs</b>	<b>20%</b>
<b>Analysis and discussion of MPC system</b>	<b>20%</b>
<b>A day in the life of interviewee</b>	<b>10%</b>
<b>Conclusion and recommendations</b>	<b>20%</b>

Each group must present its completed project to the rest of the class. The presentation should be professional in nature with respect to appearance and style. Moreover, it should last about 20 but no more than 25 minutes.

The project presentation will be evaluated based on thoroughness of materials covered, relevance of recommendations, clarity of delivery, professionalism (such as dress and visual aids), and overall organization. Please note that each student's grade on the term project will be subject to peer evaluations. Suppose, for instance, that you receive a grade of 90% for the report and the presentation combined and get an average group assessment of 90%. Your overall project grade will then be  $90\% \times 90\% = 81\%$ . See Page 10 for a sample completed evaluation form.

**Dropping a project member** - In case an individual does not perform to the team's expectation in the research project by constantly missing group meetings, failing to provide requested information in a timely fashion, contributing work that is poorly done, or exhibiting other unprofessional behaviors, the other members may collectively decide to drop him/her from the team. However, in the interest of fairness, the five-step procedure outlined below must be closely followed:

- (1) There needs to be a unanimous agreement among all other team members that the student's performance is unsatisfactory.
- (2) The concern must be conveyed to the individual in writing and discussed with him/her in person. The written notice must be signed and dated by the rest of the group.
- (3) A copy of the above-mentioned notice has to be submitted to the instructor at the same time.
- (4) The student has one week of class time to improve his/her performance.
- (5) If no satisfactory improvement is made over the two-week period, then a final written notice of dropping the person as a member of the team will be signed and dated by the other members and given to him/her. In the meanwhile, a copy of the document must be forwarded to the instructor.

If a student is dropped from a team and not accepted by another, then he/she must undertake another research project independently. **Notice that no team members can be dropped after the second exam.**

**READING SUMMARIES** – The reading list is provided on CANVAS along with the SUMMARY SUBMISSION LINKS . All reading summaries should be typewritten in Times New Roman of size 12 on 8 ½ x 11 white paper. Only two single spaced pages are allowed for the summaries. **Summaries have to be submitted by the deadline using the link available on the CANVAS.**

**SUMMARY DISCUSSIONS:** Teams will be assigned to lead online discussion of summaries. The team leading a discussion **should send notes via CANVAS email by the first Sunday following the class discussion.**

**Research Participation (10 points).** As part of your learning experience in this course, you will be required to participate in research studies to gain experience with the research process and learn about methods and scaling techniques. Your participation in these research studies will make up **10%** of your final class grade.

To fulfil the requirement, you **must** create an account on the **College of Business REP** webpage—[unt-cob.sona-systems.com](http://unt-cob.sona-systems.com)—which allows you to browse and sign up for available studies. **DO NOT** sign up for the SONA in the Psychology Department! Use the **CoB SONA** link provided above.

The amount of credit assigned is based on the length of time the study takes to complete and whether you participate online or in-person in the COB behavioral Lab (BLB 279):

**Online Studies**

- <15 minute studies = 1 credit
- 15-30 minute studies = 2 credits
- >30 minute studies = 3 credits

**In-Person Lab Studies (Behavioral Lab - BLB 279)**

- <15 minute studies = 3 credit
- 15-30 minute studies = 4 credits
- >30 minute studies = 5 credits

To fulfill the 10% course requirement, you must earn a total of **10 REP credits** throughout the semester (i.e., 1 credit = 1 percent of your final grade). All credits earned will be added to your final course grade at the end of the semester. Additional extra credit points may be available at my discretion.

- ➔ To sign up, please visit [unt-cob.sona-systems.com](http://unt-cob.sona-systems.com). If you have questions, DO NOT contact me. Instead, contact the SONA managers via email at [RCoBRep@unt.edu](mailto:RCoBRep@unt.edu). Your questions will be addressed promptly, usually within 24 hours.

**Please Note:**

- 1) Don't wait! Create your account ASAP! Get first access to available studies.
- 2) Assign your credits to the proper course. This course is: \_\_\_\_\_.
- 3) If you have another course that also requires SONA credits, you must complete those credits separately. On the main SONA account page, you can assign your completed credits to specific courses (of your choice). You have up to **May 3<sup>rd</sup>** to adjust these credits!
- 4) If you do not want to participate in the posted studies, you can complete a 2-page research article critique for 2 points of REP credit each. To do so, please email [RCoBRep@unt.edu](mailto:RCoBRep@unt.edu) and they will assign you an article to critique. Critiques are due on or before April 26<sup>th</sup>.

### **Important Deadlines!**

**April 26<sup>th</sup>, 5:00 PM** – Last day to participate in SONA for Fall semester. You will have one week from this date to adjust your final credits assigned to particular classes in SONA (May 3<sup>rd</sup>). On May 4<sup>th</sup>, final scores will be distributed to instructors and cannot be changed after that point.

Thanks in advance for your participation! Have a great semester!

**ATTENDANCE/TARDINESS, CLASS POLICY CONFORMANCE, CLASS PARTICIPATION & MISC. ASSIGNMENTS:** Attendance is expected in the same manner as employees are expected to be on the job. If a student misses graded items without prior notification or if there is no documented evidence of an emergency, this constitutes grounds for loss of all attendance/tardiness, class participation & assignments points. Also, conformance to class policy is absolutely necessary to do well on this aspect of the grade.

**Group classwork (CANVAS submission):** Classwork will be assigned for various topic areas throughout the semester. The assignments involve completion and submission of a soft copy by the deadline.

Business communication is important. If a student has planned business activities, i.e., interviews, personal business, etc., and he/she is concerned about loss of all attendance/tardiness, class participation and misc. assignments grade, prior communication of planned absence/tardiness will be considered for the three miss rule. The prior communication should take the form of a type written memo, E-mail, fax, etc. indicating the planned absence or tardiness.

**DISABILITY ACCOMODATION:** The College of Business Administration complies with the Americans with Disabilities Act (ADA) in making reasonable accommodation for qualified students with a disability. If you have an established disability as defined in the ADA and would like to request accommodation, please see me as soon as possible. My office location, office hours, email address, and office phone number are shown on this syllabus.

### **ACCEPTABLE STUDENT BEHAVIOR (Required in all UNT classes)**

Student behavior that interferes with an instructor's ability to conduct a class or other students' opportunity to learn is unacceptable, disruptive, and will not be tolerated in any instructional forum at UNT. Students engaging in unacceptable behavior will be directed to leave the classroom and the instructor may refer the student to the Center for Student Rights and Responsibilities to consider whether the student's conduct violated the Code of Student Conduct. The university's expectations for student conduct apply to all instructional forums, including university and electronic classroom, labs, discussion groups, field trips, etc. The Code of Student Conduct is found at: <https://deanofstudents.unt.edu/conduct>.

Some examples of disruptive behaviors include:

- Refusal to comply with faculty or staff
- Challenges to authority
- Actions that distract the class from the subject matter and/or discussion
- Continually and persistently speaking without being recognized in the classroom or in the office
- Repeatedly leaving and entering the classroom without authorization while class is in session
- Loud, distracting, or erratic behavior inappropriate to the setting
- Answering cell phones or allowing them to continuously ring in class, or in the office
- Overt hostility, defiance, or insults on Blackboard and email
- Excessive e-mails, phone calls, and other means of communication demanding attention outside of class times or business hours

## **ACADEMIC INTEGRITY:**

**The G. Brint Ryan College of Business takes academic honesty seriously. Ethics and integrity are important business values, essential to building trust and adhering to both professional and legal standards. Academic dishonesty destroys trust, damages the reputation and the value of the degree and is unacceptable.**

**According to UNT Policy 06.003, Student Academic Integrity, academic dishonesty occurs when students engage in behaviors including, but not limited to cheating, fabrication, facilitating academic dishonesty, forgery, plagiarism, and sabotage. A finding of academic dishonesty may result in a range of academic penalties or sanctions from admonition (a warning) to expulsion from the University.**

**Some of the most common examples of academic integrity violations include plagiarism or cheating, such as unauthorized assistance on examinations, homework, research papers or case analyses. Your work must be entirely your own. When working on assignments, you should not discuss your work with others unless approved by the course instructor. Group assignments should only be discussed with members assigned to your group, and all group members may be held accountable in some way for known academic integrity violations in a group assignment.**

**Another example of academic dishonesty relates to improper attribution. When preparing your assignments, you must cite all outside sources in the manner requested by your instructor. Copying or using material from any source prepared by or previously submitted by others, at UNT or other institutions, or downloaded from the Internet, is plagiarism. Unless directed otherwise in an assignment, large scale “cutting and pasting” from other sources, even if properly footnoted, is not appropriate. You should synthesize this material in your own words and provide a footnote.**

**Your instructor will specify what materials, if any, may be used on the tests and exams.**

**Using materials other than those permitted, talking with other individuals during the exam, individuals exchanging information about an exam when one has taken the exam and the other has not, or copying or using material from another individual’s exam is academic dishonesty and will result in a meeting to discuss academic integrity violations and potentially issue sanctions mentioned above, and may result in ineligibility for academic scholarships. The use of online assistance, such as sites commonly used for finding homework solutions, group chat, cell phones, smart watches, and similar tools during exams is not allowed for any reason unless specifically permitted. No portion of an exam may be copied or photographed without permission.**

**Students are expected to conduct themselves in a manner consistent with the University's status as an institution of higher education. A student is responsible for responding to a request to discuss suspected academic dishonesty when issued by an instructor or other University official. If a student fails to respond after a proper attempt at notification has been made, the University may take appropriate academic actions in the absence of the student’s participation.**

## **EMERGENCY EVACUATION PROCEDURES FOR BUSINESS LEADERSHIP BUILDING:**

- Severe Weather In the event of severe weather, all building occupants should immediately seek shelter in the designated shelter-in-place area in the building. If unable to**

safely move to the designated shelter-in-place area, seek shelter in a windowless interior room or hallway on the lowest floor of the building. All building occupants should take shelter in rooms 055, 077, 090, and the restrooms on the basement level. In rooms 170, 155, and the restrooms on the first floor.

- **Bomb Threat/Fire** In the event of a bomb threat or fire in the building, all building occupants should immediately evacuate the building using the nearest exit. Once outside, proceed to the designated assembly area. If unable to safely move to the designated assembly area, contact on or more members of your department or unit to let them know you are safe and inform them of your whereabouts. Persons with mobility impairments who are unable to safely exit the building should move to a designated area of refuge and await assistance from emergency responders. All building occupants should immediately evacuate the building and proceed to the south side of Crumley Hall in the grassy area, west of parking lot 24.

## **STUDENT EVALUATION OF TEACHING EFFECTIVENESS (SPOT)**

**Purpose:** The SPOT's purpose is to provide a measure of teaching effectiveness as perceived by students. It is a requirement for all organized classes at UNT. This short survey will be made available to you at the end of the semester, providing you a chance to comment on how this class is taught. I am very interested in the feedback I get from students and consider the SPOT to be an integral part of your participation in this class.

### **COVID-19 impact on this UNT class**

It is important for all of us to be mindful of the health and safety of everyone in our community, especially given concerns about COVID-19. Please contact me if you are ill, or unable to complete a scheduled, graded class task on time due to any issue related to COVID-19. It is important that you communicate with me prior to the deadline for the task as to what may be preventing you from completing it so that I may make a decision about accommodating your request in a reasonable manner that is also fair to the other students.

If you are experiencing cough, shortness of breath or difficulty breathing, fever, or any of the other possible symptoms of COVID-19 (<https://www.cdc.gov/coronavirus/2019-ncov/symptoms-testing/symptoms.html>) please seek medical attention from the Student Health and Wellness Center (940-565-2333 or [askSHWC@unt.edu](mailto:askSHWC@unt.edu)) or your health care provider. While regular, steady work is an important part of succeeding in this class, your own health, and those of others in the community, is more important.

Here is the link to the UNT webpage on staying safe on campus during the pandemic.

<https://healthalerts.unt.edu/return>



## TENTATIVE CLASS SCHEDULE

Class Day	Chapter Number	Chapter Name
Thursday, January 18, 2024	Syllabus distribution/Group formation etc./Chapter 1	Manufacturing Planning and Control
Thursday, January 25, 2024	Chapter 1A	Enterprise Resource Planning (ERP)
Thursday, February 1, 2024	Chapter 2	Demand Management
Thursday, February 8, 2024	Chapter 4	Sales and Operations Planning
Thursday, February 15, 2024	Chapter 5	Master Production Scheduling
Thursday, February 22, 2024	<b>EXAM # 1 (Chapters 1, 1A, 2, 4, and 5)</b>	
Thursday, February 29, 2024	Chapter 6	Material Requirements Planning
Thursday, March 7, 2024	Chapter 6A	Advanced Concepts in MRP
Thursday, March 14, 2024	<b>Spring Break</b>	
Thursday, March 21, 2024	Chapter 7	Capacity Planning and Management
Thursday, March 28, 2024	<b>EXAM # 2 (Chapters 6, 6A, and 7)</b>	
Thursday, April 4, 2024	Chapter 8 and Chapter 8A	Production Activity Control, and Advanced Scheduling
Thursday, April 11, 2024	Chapter 10	Distribution Requirements Planning
Thursday, April 18, 2024	Work on Class project	
Thursday, April 25, 2024	<b>Project is Due</b>	
Thursday, May 2, 2024	<b>Exam 3 (Chapters 8, 8A, and 10)</b>	
Thursday, May 9, 2024	<b>Optional Final Exam (6:30 PM to 8:30 PM)</b>	

## Due Dates

Date	Details	Due
Thu Jan 18, 2024	<a href="#">Assignment Group Classwork-1 (MPC Framework)</a>	due by 11:59pm
Sat Jan 20, 2024	<a href="#">Quiz Confirmation of Reading the Syllabus</a>	due by 10pm
	<a href="#">Quiz Review Quiz - Chapter 1</a>	due by 10pm
Thu Jan 25, 2024	<a href="#">Assignment Group Classwork-2 (ERP systems)</a>	due by 11:59pm
	<a href="#">Discussion Topic Summary 1 Discussion</a>	due by 11:59pm
	<a href="#">Assignment Summary 1 submission link</a>	due by 11:59pm
Sat Jan 27, 2024	<a href="#">Quiz Review Quiz - Chapter 1A</a>	due by 10pm
Thu Feb 1, 2024	<a href="#">Assignment Group Classwork-3 (Demand Management)</a>	due by 11:59pm
	<a href="#">Discussion Topic Summary 2 Discussion</a>	due by 11:59pm
	<a href="#">Assignment Summary 2 submission link</a>	due by 11:59pm
Sat Feb 3, 2024	<a href="#">Quiz Review Quiz - Chapter 2</a>	due by 10pm
Thu Feb 8, 2024	<a href="#">Assignment Group Classwork -4 (Operations Plan/Aggregate Planning)</a>	due by 11:59pm
	<a href="#">Discussion Topic Summary 3 Discussion</a>	due by 11:59pm
	<a href="#">Assignment Summary 3 submission link</a>	due by 11:59pm
Sat Feb 10, 2024	<a href="#">Quiz Review Quiz - Chapter 4</a>	due by 10pm
Thu Feb 15, 2024	<a href="#">Assignment Group Classwork -5 (MPS and ATP)</a>	due by 11:59pm
	<a href="#">Discussion Topic Summary 4 Discussion</a>	due by 11:59pm
	<a href="#">Assignment Summary 4 submission link</a>	due by 11:59pm
Sat Feb 17, 2024	<a href="#">Quiz Review Quiz - Chapter 5</a>	due by 10pm
Thu Feb 22, 2024	<a href="#">Quiz Exam 1</a>	due by 11:59pm

Thu Feb 29, 2024	<a href="#">Assignment Group Classwork -6 MRP</a>	due by 11:59pm
Sat Mar 2, 2024	<a href="#">Quiz Review Quiz - Chapter 6</a>	due by 10pm
Thu Mar 7, 2024	<a href="#">Assignment Group Classwork -7 Advanced MRP (Optimizing Ordering Quantities)</a>	due by 11:59pm
	<a href="#">Discussion Topic Summary 5 Discussion</a>	due by 11:59pm
	<a href="#">Assignment Summary 5 submission link</a>	due by 11:59pm
Sat Mar 9, 2024	<a href="#">Quiz Review Quiz - Chapter 6A</a>	due by 10pm
Thu Mar 21, 2024	<a href="#">Assignment Group Classwork -8 Capacity Requirements Planning</a>	due by 11:59pm
	<a href="#">Discussion Topic Summary 6 Discussion</a>	due by 11:59pm
	<a href="#">Assignment Summary 6 submission link</a>	due by 11:59pm
Sat Mar 23, 2024	<a href="#">Quiz Review Quiz - Chapter 7</a>	due by 10pm
Thu Mar 28, 2024	<a href="#">Quiz Exam 2</a>	due by 11:59pm
Thu Apr 4, 2024	<a href="#">Assignment Group Classwork -9 Scheduling</a>	due by 11:59pm
	<a href="#">Discussion Topic Summary 7 Discussion</a>	due by 11:59pm
	<a href="#">Assignment Summary 7 submission link</a>	due by 11:59pm
Sat Apr 6, 2024	<a href="#">Quiz Review Quiz - Chapter 8</a>	due by 10pm
Thu Apr 11, 2024	<a href="#">Assignment Group Classwork -10 Distribution Requirements Planning</a>	due by 11:59pm
	<a href="#">Discussion Topic Summary 8 Discussion</a>	due by 11:59pm
	<a href="#">Assignment Summary 8 submission link</a>	due by 11:59pm
Sat Apr 13, 2024	<a href="#">Quiz Review Quiz - Chapter 8A</a>	due by 10pm
Sat Apr 20, 2024	<a href="#">Quiz Review Quiz - Chapter 10</a>	due by 10pm
Tue Apr 23, 2024	<a href="#">Assignment Group Project submission link</a>	due by 11:59pm
	<a href="#">Assignment Peer Evaluation link</a>	due by 11:59pm
Fri Apr 26, 2024	<a href="#">Assignment Research Participation</a>	due by 5pm
Thu May 2, 2024	<a href="#">Quiz Exam 3</a>	due by 11:59pm
Thu May 9, 2024	<a href="#">Quiz Optional Final</a>	due by 11:59pm

**MGMT 4820.001**  
**Peer and Self Evaluation Form for Group Project**

Instruction: Please rate each of your fellow team members with respect to the criteria listed in the table below.  
Be honest, reasonable, and fair.

Group number: 1

	Amy Becker	Chris Drake	Eileen Flay	Gene Hanks	Yourself
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Meeting attendance (15%)	15%	12%	13%	15%	14%
Punctuality of work (15%)	14%	15%	12%	15%	13%
Fair share of work (30%)	29%	30%	27%	30%	29%
Quality of work (40%)	38%	37%	35%	40%	39%
Total (100%)	96%	94%	87%	100%	95%

Name: \_\_\_\_\_ Signature: \_\_\_\_\_

Date: \_\_\_\_\_

Comments: \_\_\_\_\_  
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