

Course Title: Chemical Services	Total Duration: 90 minutes Day One	Unit Overview: Basics of Chemistry & Electricity									
Background /Preparation:		Available Industry Credential(s): <ul style="list-style-type: none"> ▪ Postsecondary Degree University Degree ▪ State Board Licensing 									
Content Standards(s): Students will: <ol style="list-style-type: none"> 1. Describe chemistry and electricity safety considerations related to performing chemical services. 2. Identify safety requirements for handling corrosives and oxidizers. 3. Differentiate between organic and inorganic chemistry. 4. Identify types and benefits of light therapy. 		Learning Objective(s): Students will: <ol style="list-style-type: none"> 1. Describe safety considerations related to chemistry and electricity. 2. Understand the safety requirements for handling corrosives and oxidizers. 3. Explain between organic and inorganic chemistry. 4. Describe the types of light therapy and their benefits. Materials/Equipment/Technology Resources: Guidelines for Activity; Internet; Computers Web sites; References; Lead Questions;									
Procedures/Activities/Learning Experiences: DVD/PowerPoint Presentation: (35 minutes) Basics of Chemistry and Electricity <ul style="list-style-type: none"> • Chemical and Electrical Safety • Safety Handling Requirements Video Note-taking Worksheet: (10 minutes) Case Studies: (45 minutes) Provide students with case studies of situational problems using chemical and electricity in performing chemical services. They discuss how to address the use of chemical services performed in the situations											
Remediation: Students that need remediation will be allowed to use the school's Resource Lab.											
Provisions for Individual Differences: <table style="width: 100%; border: none;"> <tr> <td style="width: 33%;">___ Check work in progress</td> <td style="width: 33%;">___ Review Directions</td> <td style="width: 33%;">___ Monitor Assignments</td> </tr> <tr> <td>___ Review Sessions</td> <td>___ Oral Reminders</td> <td>___ Extension of time to complete</td> </tr> <tr> <td>___ Other</td> <td></td> <td></td> </tr> </table>			___ Check work in progress	___ Review Directions	___ Monitor Assignments	___ Review Sessions	___ Oral Reminders	___ Extension of time to complete	___ Other		
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Course/Program Culminating Product(s): Students write a research paper on the basics of chemistry and electricity in relation to performing chemical services.	CTSO Activity:										

Course Title: Chemical Services	Total Duration: 90 minutes Day Two	Unit Overview: Basics of Chemistry & Electricity									
Background /Preparation:		Available Industry Credential(s): <ul style="list-style-type: none"> ▪ Postsecondary Degree University Degree ▪ State Board Licensing 									
Content Standards(s): Students will: <ol style="list-style-type: none"> 1. Describe chemistry and electricity safety considerations related to performing chemical services. 2. Identify safety requirements for handling corrosives and oxidizers. 3. Differentiate between organic and inorganic chemistry. 4. Identify types and benefits of light therapy. 		Learning Objective(s): Students will: <ol style="list-style-type: none"> 1. Describe safety considerations related to chemistry and electricity. 2. Understand the safety requirements for handling corrosives and oxidizers. 3. Explain between organic and inorganic chemistry. 4. Describe the types of light therapy and their benefits. Materials/Equipment/Technology Resources: Guidelines for Activity; Internet; Computers Web sites; References; Lead Questions;									
Procedures/Activities/Learning Experiences: Guest Speaker: (90 minutes) Guest Speaker from a Beauty Supply Company discusses the basics of using chemicals and electrical tools in performing chemical services. Research Paper: (Homework) Students write a research paper on the basics of chemistry and electricity in relation to performing chemical services.											
Remediation: Students that need remediation will be allowed to use the school's Resource Lab.											
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Course/Program Culminating Product(s): Students write a research paper on the basics of chemistry and electricity in relation to performing chemical services.		CTSO Activity:									

Course Title: Chemical Services	Total Duration: 90 minutes Day Three	Unit Overview: Basics of Chemistry & Electricity
Background /Preparation:		Available Industry Credential(s): <ul style="list-style-type: none"> ▪ Postsecondary Degree University Degree ▪ State Board Licensing
Content Standards(s): Students will: <ol style="list-style-type: none"> 1. Describe chemistry and electricity safety considerations related to performing chemical services. 2. Identify safety requirements for handling corrosives and oxidizers. 3. Differentiate between organic and inorganic chemistry. 4. Identify types and benefits of light therapy. 		Learning Objective(s): Students will: <ol style="list-style-type: none"> 1. Describe safety considerations related to chemistry and electricity. 2. Understand the safety requirements for handling corrosives and oxidizers. 3. Explain between organic and inorganic chemistry. 4. Describe the types of light therapy and their benefits. Materials/Equipment/Technology Resources: Guidelines for Activity; Internet; Computers Web sites; References; Lead Questions;
Procedures/Activities/Learning Experiences: Research: (90 minutes) Computer Lab Students research safety requirements for handling corrosives and oxidizers. They develop a poster to describe the safety requirements.		
Remediation: Students that need remediation will be allowed to use the school's Resource Lab.		
Provisions for Individual Differences: <input type="checkbox"/> Check work in progress <input type="checkbox"/> Review Directions <input type="checkbox"/> Monitor Assignments <input type="checkbox"/> Review Sessions <input type="checkbox"/> Oral Reminders <input type="checkbox"/> Extension of time to complete <input type="checkbox"/> Other		
Assessment Strategies/Assessment: <input type="checkbox"/> Homework <input type="checkbox"/> Test <input type="checkbox"/> Teacher Observation <input type="checkbox"/> Performance <input type="checkbox"/> Class Discussion <input type="checkbox"/> Other		Essential Questions: c. What is the impact of chemistry and electricity in the salon environment?
Course/Program Culminating Product(s):		CTSO Activity:

Course Title: Chemical Services	Total Duration: 90 minutes Day Four	Unit Overview: Basics of Chemistry & Electricity									
Background /Preparation:		Available Industry Credential(s): <ul style="list-style-type: none"> ▪ Postsecondary Degree University Degree ▪ State Board Licensing 									
Content Standards(s): Students will: <ol style="list-style-type: none"> 1. Describe chemistry and electricity safety considerations related to performing chemical services. 2. Identify safety requirements for handling corrosives and oxidizers. 3. Differentiate between organic and inorganic chemistry. 4. Identify types and benefits of light therapy. 		Learning Objective(s): Students will: <ol style="list-style-type: none"> 1. Describe safety considerations related to chemistry and electricity. 2. Understand the safety requirements for handling corrosives and oxidizers. 3. Explain between organic and inorganic chemistry. 4. Describe the types of light therapy and their benefits. Materials/Equipment/Technology Resources: Guidelines for Activity; Internet; Computers Web sites; References; Lead Questions;									
Procedures/Activities/Learning Experiences: PowerPoint Presentation: Differentiating between organic and inorganic chemistry Quickwrite: Students write a short paper on the differences between organic and inorganic chemistry.											
Remediation: Students that need remediation will be allowed to use the school's Resource Lab.											
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Course Title: Chemical Services	Total Duration: 90 minutes Day Five	Unit Overview: Basics of Chemistry & Electricity
Background /Preparation:		Available Industry Credential(s): <ul style="list-style-type: none"> ▪ Postsecondary Degree University Degree ▪ State Board Licensing
Content Standards(s): Students will: <ol style="list-style-type: none"> 1. Describe chemistry and electricity safety considerations related to performing chemical services. 2. Identify safety requirements for handling corrosives and oxidizers. 3. Differentiate between organic and inorganic chemistry. 4. Identify types and benefits of light therapy. 		Learning Objective(s): Students will: <ol style="list-style-type: none"> 1. Describe safety considerations related to chemistry and electricity. 2. Understand the safety requirements for handling corrosives and oxidizers. 3. Explain between organic and inorganic chemistry. 4. Describe the types of light therapy and their benefits. Materials/Equipment/Technology Resources: Guidelines for Activity; Internet; Computers Web sites; References; Lead Questions;
Procedures/Activities/Learning Experiences: Guest Speaker: (90 minutes) Guest Speaker from a Beauty Supply Company discusses the basics of using chemicals and electrical tools in performing chemical services. Research Paper: (Homework) Students write a research paper on the basics of chemistry and electricity in relation to performing chemical services.		
Remediation: Students that need remediation will be allowed to use the school's Resource Lab.		
Provisions for Individual Differences: <input type="checkbox"/> Check work in progress <input type="checkbox"/> Review Directions <input type="checkbox"/> Monitor Assignments <input type="checkbox"/> Review Sessions <input type="checkbox"/> Oral Reminders <input type="checkbox"/> Extension of time to complete <input type="checkbox"/> Other		
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Course/Program Culminating Product(s):		CTSO Activity:

Course Title: Chemical Services	Total Duration: 90 minutes Day Six	Unit Overview: Basics of Chemistry & Electricity									
Background /Preparation:		Available Industry Credential(s): <ul style="list-style-type: none"> ▪ Postsecondary Degree University Degree ▪ State Board Licensing 									
Content Standards(s): Students will: <ol style="list-style-type: none"> 1. Describe chemistry and electricity safety considerations related to performing chemical services. 2. Identify safety requirements for handling corrosives and oxidizers. 3. Differentiate between organic and inorganic chemistry. 4. Identify types and benefits of light therapy. 		Learning Objective(s): Students will: <ol style="list-style-type: none"> 1. Describe safety considerations related to chemistry and electricity. 2. Understand the safety requirements for handling corrosives and oxidizers. 3. Explain between organic and inorganic chemistry. 4. Describe the types of light therapy and their benefits. Materials/Equipment/Technology Resources: Guidelines for Activity; Internet; Computers Web sites; References; Lead Questions;									
Procedures/Activities/Learning Experiences: PowerPoint Presentation: (30 minutes) Differentiating between organic and inorganic chemistry Quickwrite: (30 minutes) Students write a short paper on the differences between organic and inorganic chemistry. Flash Cards: (30 minutes) Students create flash cards that provide definitions and words pertaining to the types and benefits of light therapy											
Remediation: Students that need remediation will be allowed to use the school's Resource Lab.											
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Course/Program Culminating Product(s):	CTSO Activity:										

Course Title: Chemical Services	Total Duration: 90 minutes Day Seven	Unit Overview: <p style="text-align: center;">Hair & Scalp</p>									
Background /Preparation:		Available Industry Credential(s): <ul style="list-style-type: none"> ▪ Postsecondary Degree University Degree ▪ State Board Licensing 									
Content Standards(s): Students will: 5. Describe the structure and composition of hair. 6. Determine the impact of acids, alkalis, and pH on the hair and scalp. <ul style="list-style-type: none"> • Defining acids and alkali's, including charting chemicals on the pH scale 7. Explain the relevance of porosity, density, texture, elasticity, and disorders of the hair for chemical services. 8. Differentiate between a soft curl and a chemical relaxer. 9. Describe structural changes that take place in hair as a result of permanent waving. 10. Identify factors critical to hair and scalp analysis. 11. Compare chemical texture services and structural changes that occur in the hair.		Learning Objective(s): Students will: <ol style="list-style-type: none"> 1. Describe the structure and composition of hair. 2. Explain the impact of acids, alkalis, and pH on the hair and scalp. 3. Determine the relevance of porosity, density, texture, elasticity, and disorders of the hair for chemical services. 4. Explain the difference between a soft curl and a chemical relaxer. 5. Describe structural changes that take place in hair as a result of permanent waving. 6. Explain the factors critical to hair and scalp analysis. 7. Analyze chemical texture services and structural changes that occur in the hair. Materials/Equipment/Technology Resources: Guidelines for Activity; Internet; Computers Web sites; References; Lead Questions;									
Procedures/Activities/Learning Experiences: DVD/PowerPoint Presentation: (45 minutes) The Structure and Composition of Hair Fish Bowl: (45 minutes) Students write questions and answers on structure and composition of hair on slips of paper and place in a bowl. Students draw a question to answer. Class discusses answers.											
Remediation: Students that need remediation will be allowed to use the school's Resource Lab.											
Provisions for Individual Differences: <table style="width: 100%; border: none;"> <tr> <td style="width: 33%;">___ Check work in progress</td> <td style="width: 33%;">___ Review Directions</td> <td style="width: 33%;">___ Monitor Assignments</td> </tr> <tr> <td>___ Review Sessions</td> <td>___ Oral Reminders</td> <td>___ Extension of time to complete</td> </tr> <tr> <td>___ Other</td> <td></td> <td></td> </tr> </table>			___ Check work in progress	___ Review Directions	___ Monitor Assignments	___ Review Sessions	___ Oral Reminders	___ Extension of time to complete	___ Other		
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___ Teacher Observation	___ Performance										
___ Class Discussion	___ Other										
Course/Program Culminating Product(s): Students place research papers in portfolio.	CTSO Activity:										

Course Title: Chemical Services	Total Duration: 90 minutes Day Eight	Unit Overview: <p style="text-align: center;">Hair & Scalp</p>									
Background /Preparation:		Available Industry Credential(s): <ul style="list-style-type: none"> ▪ Postsecondary Degree University Degree ▪ State Board Licensing 									
Content Standards(s): Students will: 5. Describe the structure and composition of hair. 6. Determine the impact of acids, alkalis, and pH on the hair and scalp. <ul style="list-style-type: none"> • Defining acids and alkali's, including charting chemicals on the pH scale 7. Explain the relevance of porosity, density, texture, elasticity, and disorders of the hair for chemical services. 8. Differentiate between a soft curl and a chemical relaxer. 9. Describe structural changes that take place in hair as a result of permanent waving. 10. Identify factors critical to hair and scalp analysis. 11. Compare chemical texture services and structural changes that occur in the hair.		Learning Objective(s): Students will: <ol style="list-style-type: none"> 1. Describe the structure and composition of hair. 2. Explain the impact of acids, alkalis, and pH on the hair and scalp. 3. Determine the relevance of porosity, density, texture, elasticity, and disorders of the hair for chemical services. 4. Explain the difference between a soft curl and a chemical relaxer. 5. Describe structural changes that take place in hair as a result of permanent waving. 6. Explain the factors critical to hair and scalp analysis. 7. Analyze chemical texture services and structural changes that occur in the hair. Materials/Equipment/Technology Resources: Guidelines for Activity; Internet; Computers Web sites; References; Lead Questions;									
Procedures/Activities/Learning Experiences: Teacher Talk: (45 minutes) <ul style="list-style-type: none"> • Impact of acids, alkalis, and pH on the hair and scalp • Definition of Acids • Definition of alkali's • Charting chemicals on pH Scale Inquiry: 45 minutes in computer lab; finish for Homework Students write a research paper on the pH Scale.											
Remediation: Students that need remediation will be allowed to use the school's Resource Lab.											
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___ Teacher Observation	___ Performance										
___ Class Discussion	___ Other										
Course/Program Culminating Product(s): Students place research papers in portfolio.	CTSO Activity:										

Course Title: Chemical Services	Total Duration: 90 minutes Day Nine	Unit Overview: <p style="text-align: center;">Hair & Scalp</p>									
Background /Preparation:		Available Industry Credential(s): <ul style="list-style-type: none"> ▪ Postsecondary Degree University Degree ▪ State Board Licensing 									
Content Standards(s): Students will: 5. Describe the structure and composition of hair. 6. Determine the impact of acids, alkalis, and pH on the hair and scalp. <ul style="list-style-type: none"> • Defining acids and alkali's, including charting chemicals on the pH scale 7. Explain the relevance of porosity, density, texture, elasticity, and disorders of the hair for chemical services. 8. Differentiate between a soft curl and a chemical relaxer. 9. Describe structural changes that take place in hair as a result of permanent waving. 10. Identify factors critical to hair and scalp analysis. 11. Compare chemical texture services and structural changes that occur in the hair.		Learning Objective(s): Students will: <ol style="list-style-type: none"> 1. Describe the structure and composition of hair. 2. Explain the impact of acids, alkalis, and pH on the hair and scalp. 3. Determine the relevance of porosity, density, texture, elasticity, and disorders of the hair for chemical services. 4. Explain the difference between a soft curl and a chemical relaxer. 5. Describe structural changes that take place in hair as a result of permanent waving. 6. Explain the factors critical to hair and scalp analysis. 7. Analyze chemical texture services and structural changes that occur in the hair. 									
Lesson Improvements:		Materials/Equipment/Technology Resources: Guidelines for Activity; Internet; Computers Web sites; References; Lead Questions;									
Procedures/Activities/Learning Experiences: Lab experiment: Hair Structure & Chemistry Simplified Book experiment #											
Remediation: Students that need remediation will be allowed to use the school's Resource Lab.											
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Course/Program Culminating Product(s): Students place research papers in portfolio.		CTSO Activity:									

Course Title: Chemical Services	Total Duration: 90minutes Day 10 & 11	Unit Overview: <p style="text-align: center;">Hair & Scalp</p>									
Background /Preparation:		Available Industry Credential(s): <ul style="list-style-type: none"> ▪ Postsecondary Degree University Degree ▪ State Board Licensing 									
Content Standards(s): Students will: 5. Describe the structure and composition of hair. 6. Determine the impact of acids, alkalis, and pH on the hair and scalp. <ul style="list-style-type: none"> • Defining acids and alkali's, including charting chemicals on the pH scale 7. Explain the relevance of porosity, density, texture, elasticity, and disorders of the hair for chemical services. 8. Differentiate between a soft curl and a chemical relaxer. 9. Describe structural changes that take place in hair as a result of permanent waving. 10. Identify factors critical to hair and scalp analysis. 11. Compare chemical texture services and structural changes that occur in the hair.		Learning Objective(s): Students will: <ol style="list-style-type: none"> 1. Describe the structure and composition of hair. 2. Explain the impact of acids, alkalis, and pH on the hair and scalp. 3. Determine the relevance of porosity, density, texture, elasticity, and disorders of the hair for chemical services. 4. Explain the difference between a soft curl and a chemical relaxer. 5. Describe structural changes that take place in hair as a result of permanent waving. 6. Explain the factors critical to hair and scalp analysis. 7. Analyze chemical texture services and structural changes that occur in the hair. 									
Procedures/Activities/Learning Experiences: Pair, Share, and Define: (45 minutes) In pairs, students use their flash cards to review structural changes that take place in hair as a result of permanent waving. PowerPoint Presentation: (45 minutes) Hair and Scalp Analysis		Materials/Equipment/Technology Resources: Guidelines for Activity; Internet; Computers Web sites; References; Lead Questions;									
Remediation: Students that need remediation will be allowed to use the school's Resource Lab.											
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Course Title: Chemical Services	Total Duration: 180 minutes Day 11 & 12	Unit Overview: <p style="text-align: center;">Hair & Scalp</p>									
Background /Preparation:		Available Industry Credential(s): <ul style="list-style-type: none"> ▪ Postsecondary Degree University Degree ▪ State Board Licensing 									
Content Standards(s): Students will: 5. Describe the structure and composition of hair. 6. Determine the impact of acids, alkalis, and pH on the hair and scalp. <ul style="list-style-type: none"> • Defining acids and alkali's, including charting chemicals on the pH scale 7. Explain the relevance of porosity, density, texture, elasticity, and disorders of the hair for chemical services. 8. Differentiate between a soft curl and a chemical relaxer. 9. Describe structural changes that take place in hair as a result of permanent waving. 10. Identify factors critical to hair and scalp analysis. 11. Compare chemical texture services and structural changes that occur in the hair.		Learning Objective(s): Students will: <ol style="list-style-type: none"> 1. Describe the structure and composition of hair. 2. Explain the impact of acids, alkalis, and pH on the hair and scalp. 3. Determine the relevance of porosity, density, texture, elasticity, and disorders of the hair for chemical services. 4. Explain the difference between a soft curl and a chemical relaxer. 5. Describe structural changes that take place in hair as a result of permanent waving. 6. Explain the factors critical to hair and scalp analysis. 7. Analyze chemical texture services and structural changes that occur in the hair. Materials/Equipment/Technology Resources: Guidelines for Activity; Internet; Computers Web sites; References; Lead Questions;									
Procedures/Activities/Learning Experiences: Teacher Talk/Demonstration:(90 minutes) Hair Analysis Client Consultation Role Playing: (90 minutes) Students role play aspects of a hair analysis and client consultation											
Remediation: Students that need remediation will be allowed to use the school's Resource Lab.											
Provisions for Individual Differences: <table style="width: 100%; border: none;"> <tr> <td style="width: 33%;">___ Check work in progress</td> <td style="width: 33%;">___ Review Directions</td> <td style="width: 33%;">___ Monitor Assignments</td> </tr> <tr> <td>___ Review Sessions</td> <td>___ Oral Reminders</td> <td>___ Extension of time to complete</td> </tr> <tr> <td>___ Other</td> <td></td> <td></td> </tr> </table>			___ Check work in progress	___ Review Directions	___ Monitor Assignments	___ Review Sessions	___ Oral Reminders	___ Extension of time to complete	___ Other		
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Course/Program Culminating Product(s): Students place research papers in portfolio.	CTSO Activity:										

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Procedures/Activities/Learning Experiences: Research Investigation: (2 days in the computer lab) Students research chemical texture structure services and structural changes that occur in hair. PowerPoint Presentation											
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Course/Program Culminating Product(s): research papers and power point presentation	CTSO Activity:										